

creative technologies



rek^{biotech}om
High Quality Raw Materials
for IVD Manufacturing Industry

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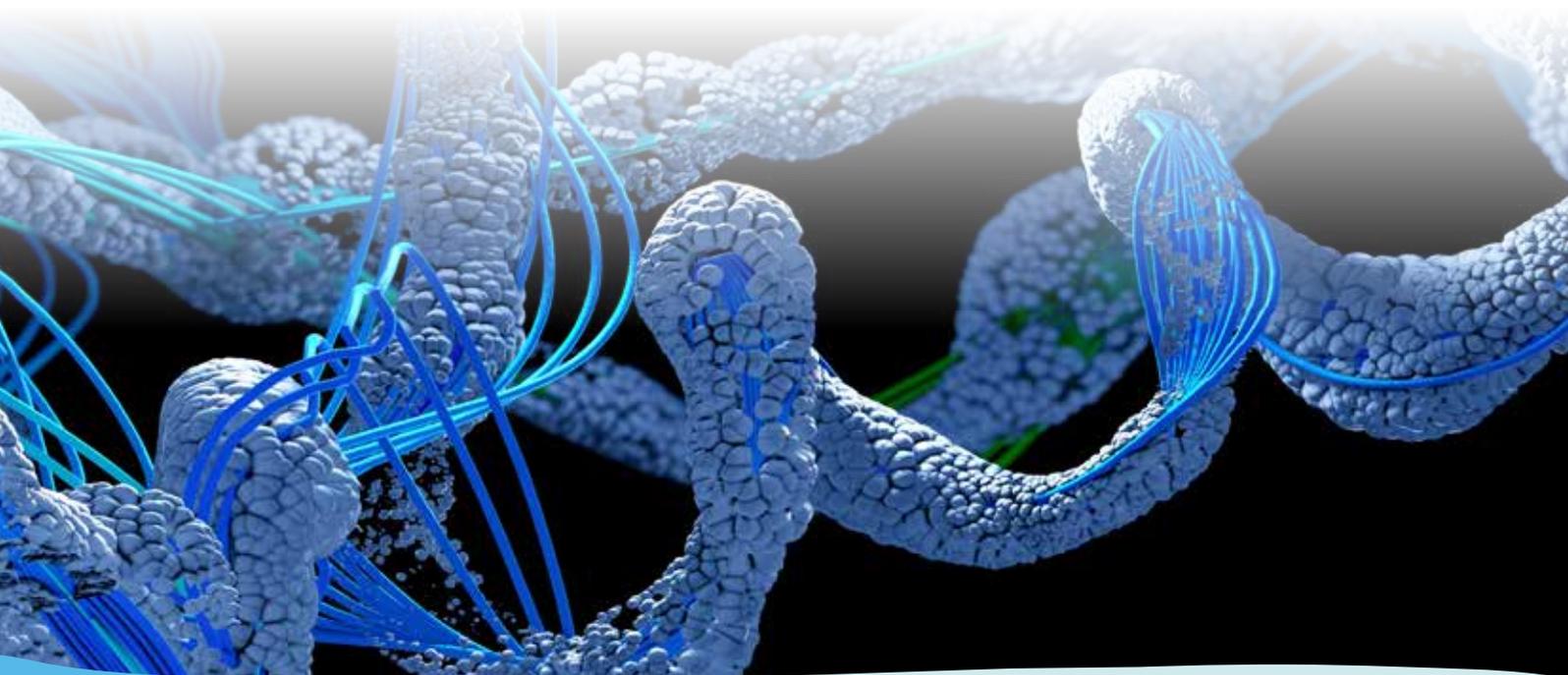
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About us

Rekom Biotech is a biotechnology company focused on the design and manufacturing of **IVD reagents for *in vitro* diagnostics**. We offer high quality, validated and versatile raw material, suitable for use in the various platforms available on the market, among others: second and third generation ELISAs, immunochromatography, chemiluminescence, Western blot, dot-blot, etc.

We are committed to ensure the highest quality level in the design and manufacturing of our IVD reagents, following a rigorous quality control for each lot produced. Our quality system is certified by **ISO 9001** and **ISO 13485** standards. Besides, as we are manufacturers, we can try to adapt our products to your needs, if any problem arises during the evaluation of our products.

Our portfolio includes a range of **recombinant proteins** for **humans** and **animals** that are designed to diagnostic both **infectious diseases** and **allergies**. These proteins can be utilized for various purposes, such as serving as raw material for antibody tests, acting as internal controls for antigen tests, and even functioning as immunogens to create antibodies. To ensure maximum effectiveness, these proteins are produced through a variety of different expression systems.

Our goal is to improve the antigenicity of protein, enhance sensitivity, and reduce potential specificity problems. Additionally, we provide many of these recombinant proteins in monobiotinylated and HRP-conjugated.

In particular, we have specialized in the design and production of next-generation proteins: chimeras or proteins composed of multiple epitopes, which have improved their antigenic properties, such as sensitivity and specificity. Furthermore, another main advantage of the multi-epitope chimeric proteins is avoiding the use of protein mixtures in your assay. The limited number of binding sites and the different affinities of proteins for these sites could result in reproducibility issues.

In our portfolio you will also find: **polyclonal antibodies**, which can be used as raw material for an antigen test, or as an internal calibrator for an antibody test; and an **immunoassay blocker** for anti-cross-reactive carbohydrate determinants (CCD) antibodies, with which anti-CCD antibodies will be kidnapped, and the specificity of the assay will increase.

We also offer **custom-made proteins and antibodies** service to support the R&D of IVD manufacturers that want to develop a new assay and cannot find the right reagent.

MISSION

In Rekom Biotech our mission is to offer high quality IVD reagents to be used for *in vitro* diagnosis of human and animal infectious diseases and allergies.

Our working philosophy gives priority to the establishment of alliances and collaborations which will allow us to set up new prototypes and develop new products.

VISION

Rekom Biotech wants to become a reference supplier of IVD reagents for human and animal infectious diseases and allergies.

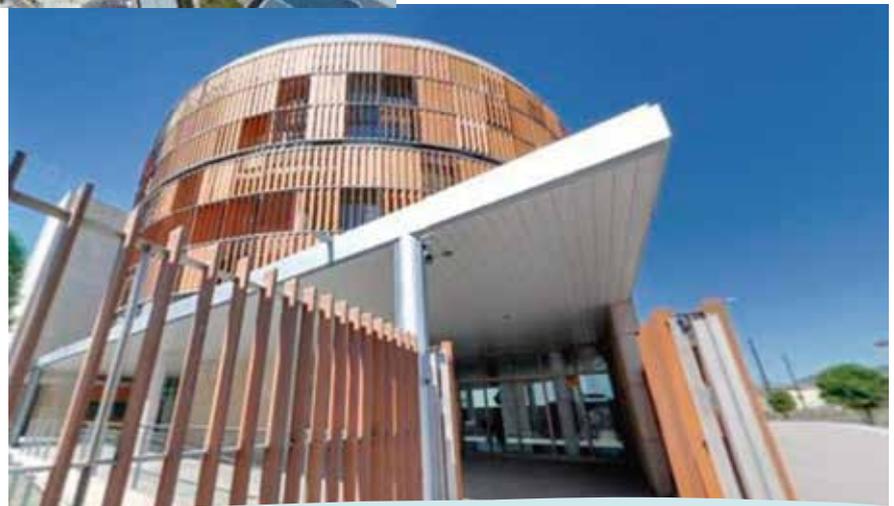
We like to work closely with IVD manufacturers to understand their problems and provide them with products totally adapted to their needs. In Rekom Biotech, we support our customers through the development process to overcome the challenges of applying the recombinant proteins to a specific platform.

We want to maintain our competitiveness through constant innovation in our products. In order to achieve this goal, we encourage continued training and creativity in our team. We give capital importance to participation and collaboration in scientific projects.

Our facilities

We are located in Spain, Granada, in the PTS, a health sciences scientific park.

We are surrounded by universities, hospitals, research centers, which we have collaborated with many times, and many important companies.





Product performance

Our recombinant proteins are stored in **highly versatile** buffers, allowing their accessibility to the different IVD platforms in the market. Otherwise, our technical team will do its best to adapt the protein to your platform. Trust in us. We will find the best solution for your system.

Many of our IVD reagents have been **validated** by in-house ELISA assays, with pre-validated positive and negative specimen sera.

Our "ready-to-use" **conjugated proteins** (monobiotinylated and HRP-conjugated), can be used with multiple objectives: plate orientation, nanoparticle and gold binding, as detectors in immunocapture and immunometric formats. In addition, formats such as ELISA-capture or ELISA-DAS (Double Antigen Sandwich), can be used directly to reveal your IVD test.

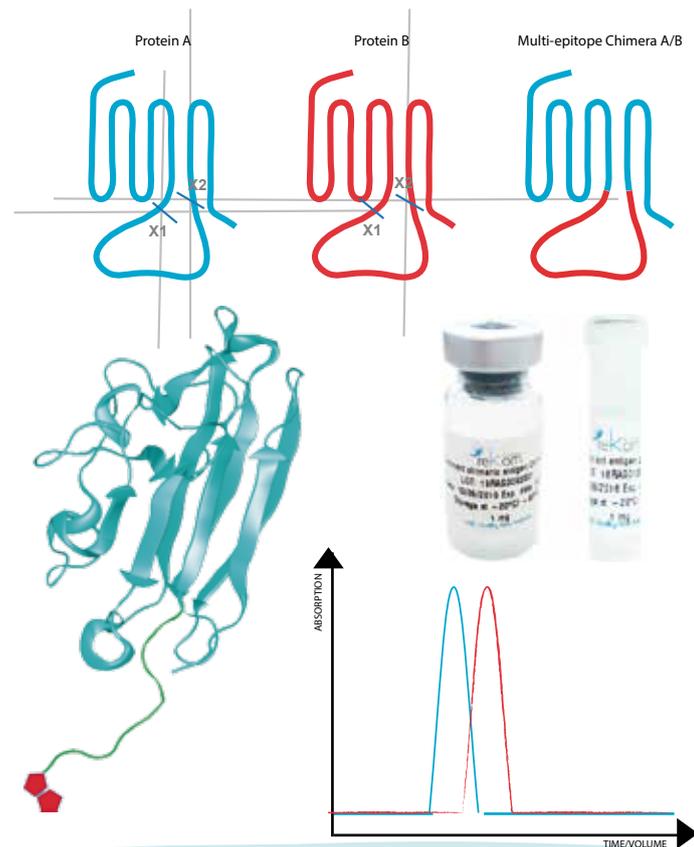
We guarantee the Lot-to-Lot Consistency (**reproducibility**) of our products. We are certified in ISO 9001 and ISO 13485, which means that all our procedures are protocolized, and we comply with the quality requirements that any company would expect to find in an IVD reagents supplier.

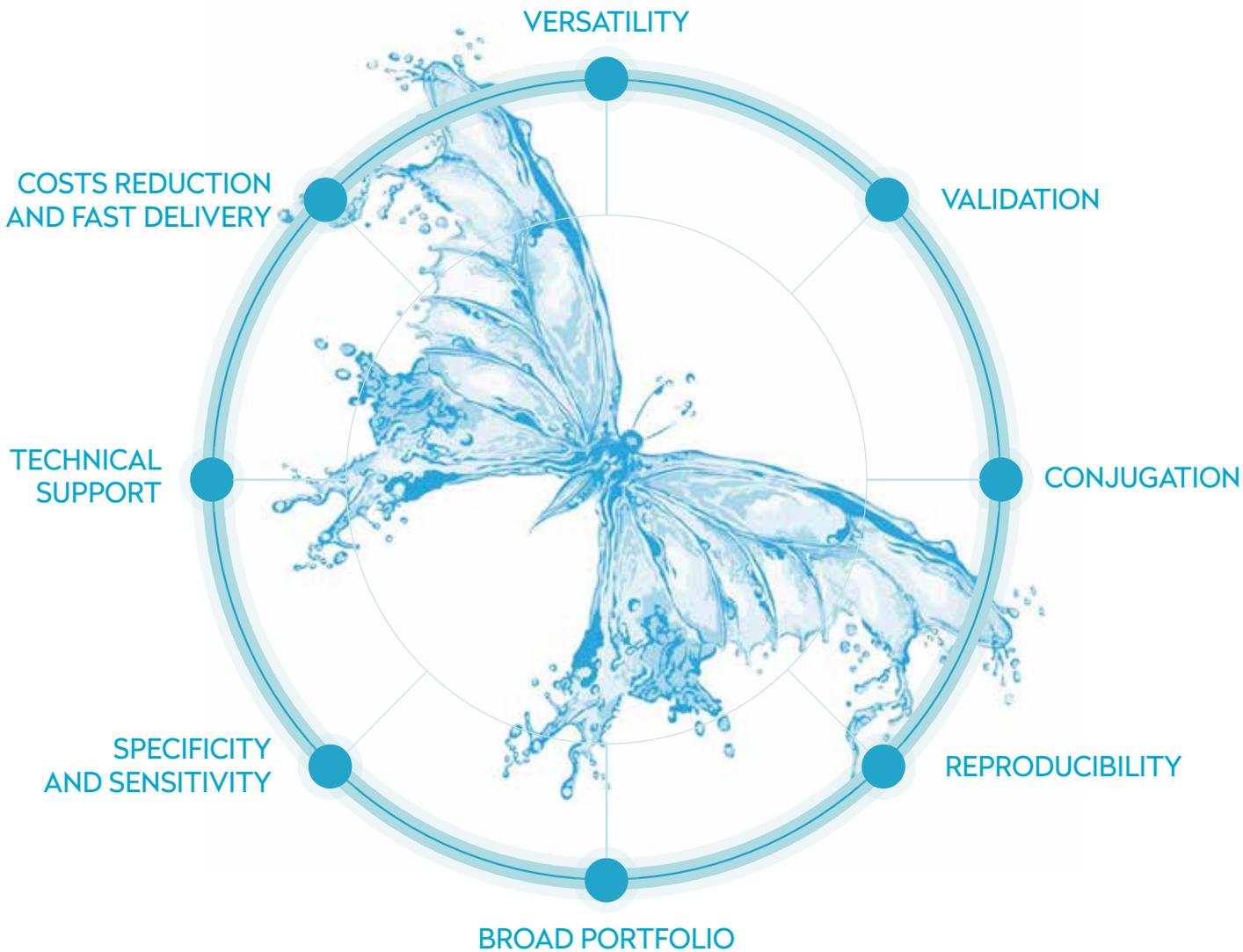
Rekom Biotech offers a **broad portfolio** of IVD reagents. We have many recombinant proteins for IVD manufacturing industry, aimed at the identification of diagnosis of **humans** and **animals** infectious diseases, and **allergies**. We also have **antibodies** for the development of your antigen test, or as an internal calibrator for your antibody test. Besides, we offer **sorbents** for using in *in vitro* diagnostic.

At Rekom Biotech, we have specialized in the design and production of next-generation proteins, recombinant chimeric or multi-epitope proteins, which have improved their antigenic properties such as **sensitivity and specificity**. In other words, these are last-generation IVD reagents which will make your IVD test stand out in the market.

We offer customized **technical support**. Given our extensive experience in the sector and our great technical capacity, we can provide you with whatever you need, even if it is not in the market.

Focused on **reducing** the complexity of **logistics** and the **shipping costs**, we lyophilize all our IVD reagents. The lyophilization significantly reduces the cost of transport, which also does not require dry ice anymore, and facilitates the entry of our products to a greater number of countries, without the need of intermediaries.





HUMAN INFECTIOUS DISEASES



Rekom Biotech offers a wide range of **recombinant proteins** for *in vitro* diagnosis of **human infectious diseases**, including those of zoonotic origin. These proteins will allow you to manufacture your **antibody tests** with a raw material of high quality and reproducibility, viable for any existing diagnostic platform on the market. Given our extensive experience in the sector, we can advise you on what best suits your project. Trust us!

We design and produce recombinant proteins for human infectious diseases in the areas of parasitology, virology, bacteriology, and mycology.



PARASITES



VIRUSES



BACTERIA



FUNGI

PARASITES



ChimToxo1
ChimToxo1

KMP11
KMP11

1F8
1F8

K39
K39

ChimChagas2
ChimChagas2

p35 (GRA8)
p35 (GRA8)

FRA
FRA

p29 (GRA7)
p29 (GRA7)

p30 (SAG1)
p30 (SAG1)

ChimChagas1
ChimChagas1

ChimChagas3
ChimChagas3

B13
B13

CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
1F8*	RAG0003	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Calcium-binding flagellar antigen
B13*	RAG0103	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	CA-2 surface antigen, oka. Ag2, PEP2, TcR34
FRA*	RAG0005	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytoskeleton assoc. antigen, oka. Ag1, JL7, H49
	RAG0005BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	FRA biotinylated
ChimChagas1*	RAG0093 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
ChimChagas2*	RAG0094 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0094BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas2 biotinylated
ChimChagas3*	RAG0096 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0096BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas3 biotinylated

***Specific Antibodies:** Polyclonal antibody against Chagas (p. 56)

LEISHMANIOSIS (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
K39	RAG0061 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen
	RAG0061BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	K39 biotinylated
KMP11	RAG0038	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Kinetoplastid membrane antigen of 11 kDa

TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p29 (GRA7)*	RAG0083	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
p30 (SAG1)*	RAG0011 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major surface antigen
	RAG0030	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	p30 (SAG1) in <i>P. pastoris</i>
p35 (GRA8)*	RAG0084	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
ChimToxo1*	RAG0058	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (SAG1 and GRA8)

***Specific Antibodies:** Polyclonal antibody against GRA7/GRA8 and SAG1 (p. 56)

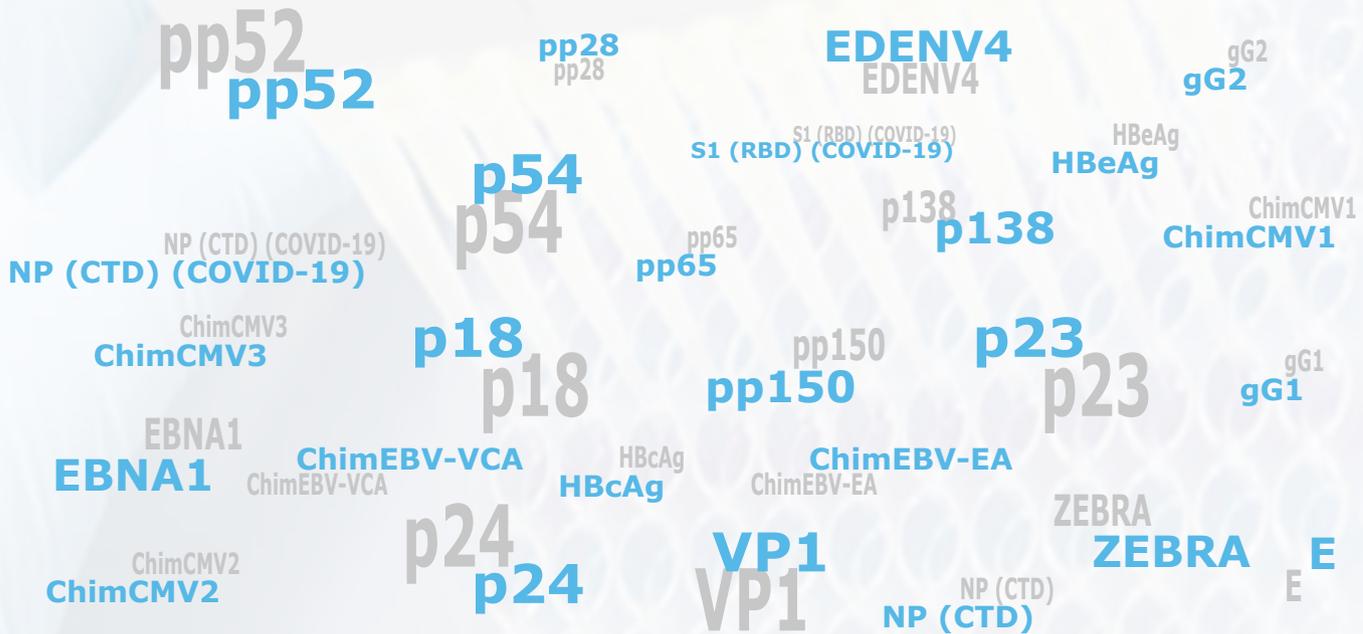
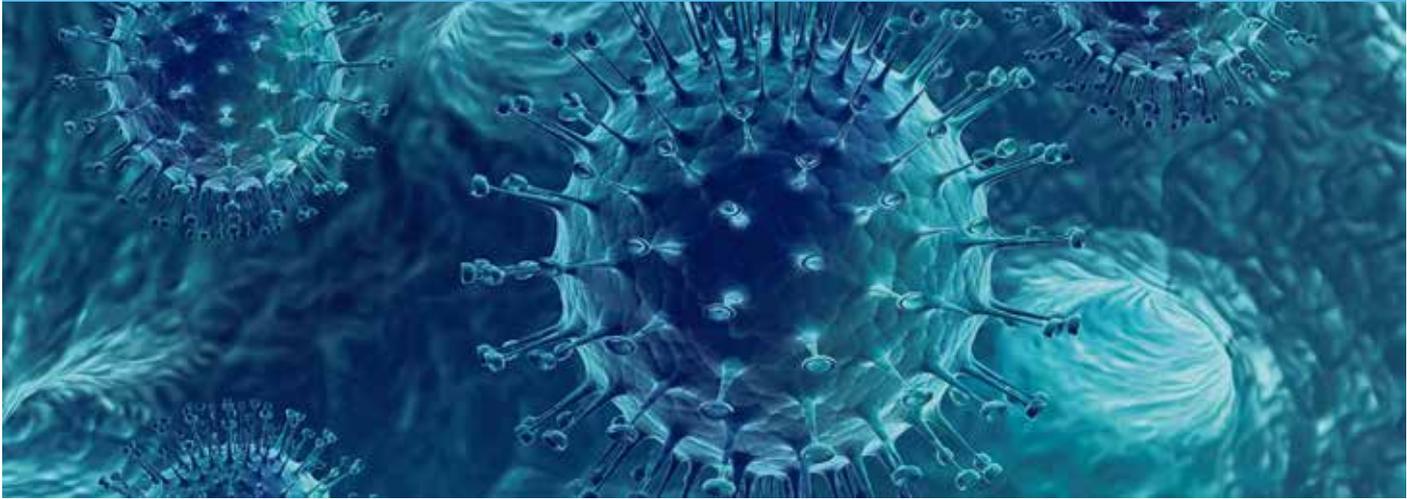
WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

VIRUSES



AIDS (HIV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p24	RAG0057 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen
	RAG0057BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	p24 biotinylated
COVID-19 (SARSCoV-2)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NP (CTD)	RAG0071	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	SARS-CoV-2 nucleoprotein C-terminal domain
S1 (RBD)	RAG0074	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	SARS-CoV-2 S1 Receptor Binding Domain (RBD)
COXSACKIEVIRUS (<i>coxsackievirus B1</i>)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
VP1	RAG0028	<i>E. coli</i>	WB, DB, IE, DE	Viral polyprotein. Tucson
CYTOMEGALOVIRUS (CMV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
pp52*	RAG0090 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	DNA polymerase processivity subunit
	RAG0090BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	pp52 biotinylated
pp65*	RAG0016 	<i>E. coli</i>	WB, DB, IE, DE	Viral tegument phosphoprotein
pp150* <i>new!</i>	RAG0091 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral matrix phosphoprotein
	RAG0059 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	
ChimCMV1*	RAG0109 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0109BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	ChimCMV1 biotinylated
ChimCMV2*	RAG0110	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0110BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	ChimCMV2 biotinylated
ChimCMV3*	RAG0018 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
pp28	RAG0004 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Phosphoprotein
*Specific Antibodies: Polyclonal antibodies against pp52, pp65 and pp150 (p. 56)				

Pack size: 0.1 mg*; 1 mg; bulk
Format: liquid; lyophilised

*under availability

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DB: Dot Blot
IE: Indirect ELISA
DE: positive control in direct ELISA
CLIA: Chemiluminescent Immunoassay

LF: Lateral Flow
CE: Capture ELISA
DAS: Double antigen sandwich
NP: nanoparticles binding
PO: plate orientation



Top product (Satisfaction guarantee)

DENGUE

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
EDENV4	RAG0070	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Dengue Virus envelope protein

EPSTEIN-BARR VIRUS (EBV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
EBNA1	RAG0007  RAG0047 	<i>E. coli</i> <i>E. coli</i>	WB, DB, IE, DE, CLIA, LF WB, DB, IE, DE	Late nuclear antigen
p18	RAG0049  RAG0049BIOT	<i>E. coli</i> <i>E. coli</i>	WB, DB, IE, DE, CLIA, LF WB, DB, CE, NP, PO	Viral capsid antigen p18 biotinylated
p23	RAG0002	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen
p54	RAG0035 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Early antigen
p138	RAG0033	<i>E. coli</i>	WB, DB, IE, DE	Early antigen
ZEBRA	RAG0023	<i>E. coli</i>	WB, DB, IE, DE	Transcription factor, early antigen
ChimEBV-VCA	RAG0081 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
ChimEBV-EA	RAG0082 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

GENITAL HERPES produced by HSV-2 (Herpes simplex virus type 2)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gG2	RAG0087	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Contains the immunogenic regions of the glycoprotein G from the HSV-2

WB: Western Blot
 DB: Dot Blot
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 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
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Pack size: 0.1 mg*; 1 mg; bulk
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Top product (Satisfaction guarantee)

HEPATITIS B (HBV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
HBcAg*	RAG0056	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Hepatitis B virus core antigen assembled as capsid-like particles
HBeAg	RAG0062	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	HBV e antigen that comprises the 10 aa pre-core sequence plus the 149-residue assembly core

***Specific Antibodies:** Polyclonal antibodies against HBcAg (p. 56)

SARS-CoV (2003)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NP (CTD)	RAG0080	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	SARS-CoV nucleoprotein C-terminal domain. 92.5% identity with NP COVID-19.

ORAL HERPES produced by HSV-1 (Herpes simplex virus type 1)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gG1 <i>new!</i> <i>new!</i>	RAG0017	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant mature glycoprotein G for HSV-1 gG1 biotinylated
	RAG0017BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	
	RAG0105	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

WEST NILE VIRUS (WNV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
E	RAG0001	<i>E. coli</i>	WB, DB, IE, DE	Envelope glycoprotein
	RAG0065	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

WB: Western Blot
 DB: Dot Blot
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 LF: Lateral Flow
 CE: Capture ELISA
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BACTERIA



TPP15
TPP15
TPP47
ChimSyphilis2
VLsE
VLsE
p44
LipL21
P30
TmpA
LipL32
LipL21
P30
TmpA
LipL32
CFP10:ESAT6
ospC
ChimLip1
Flagellin
CFP10:ESAT6
ospC
ChimLip1
Flagellin
P1
OMP
ChimSyphilis1
TPP17
CFP10
P1
OMP
ChimSyphilis1
TPP17
CFP10
CagA
ChimMp
ChimMp

ATYPICAL PNEUMONIA (*Mycoplasma pneumoniae*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
P1 *	RAG0053	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Mycoplasma pneumoniae</i> P1 adhesin protein
P30 *	RAG0041 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Mycoplasma pneumoniae</i> P30 adhesin protein
ChimMp *	RAG0051 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>M. pneumoniae</i>

***Specific Antibodies:** Polyclonal antibody against *Mycoplasma pneumoniae* (p. 57)

ANAPLASMOSIS (*Anaplasma phagocytophilum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p44 *	RAG0026	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>A. phagocytophilum</i>

***Specific Antibodies:** Polyclonal antibody against Anaplasmosis (p. 57)

BORRELIOSIS or LYME DISEASE

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
ospC	RAG0042 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. afzelii</i>
	RAG0043 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. burgdorferi</i>
	RAG0034 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. garinii</i>
flagellin B	RAG0054 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. afzelii</i> 41 kDa flagelline B protein
	RAG0055 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. burgdorferi</i> 41 kDa flagelline B protein
	RAG0072 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. garinii</i> 41 kDa flagelline B protein
VlsE	RAG0022 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. garinii</i>
	RAG0027 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. burgdorferi</i>
	RAG0102 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major variable Surface antigen for <i>B. afzelii</i>

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EHRlichIOSIS (*Ehrlichia canis*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gp19 *	RAG0025 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Glycoprotein gp19 of <i>Ehrlichia canis</i>

***Specific Antibodies:** Polyclonal antibody against Ehrlichiosis (p. 57)

HELICOBACTER PYLORI INFECTION

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
CagA	RAG0088 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytotoxin-associated gene A (Domain III)

LEPTOSPIROSIS (*Leptospira interrogans*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
LipL32 *	RAG0077	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major outer membrane antigen, lipoprotein
	RAG0063	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	LipL32 in <i>P. pastoris</i>
LipL21 *	RAG0100	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	The second most abundant protein <i>L. interrogans</i>
ChimLip1 *	RAG0019 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>
	RAG0037 new!	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	
ChimLip2	RAG0031 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>
ChimLip3	RAG0076 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>

***Specific Antibodies:** Polyclonal antibody against Leptospirosis (p. 57)

TUBERCULOSIS (*Mycobacterium tuberculosis, Koch's bacillus*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
CFP10 *	RAG0050	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Culture filtrate antigen of 10 kDa
CFP10:ESAT6*	RAG0060	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

***Specific Antibodies:** Polyclonal antibody against Tuberculosis (p. 56)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
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 CLIA: Chemiluminescent Immunoassay
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 NP: nanoparticles binding
 PO: plate orientation



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 *under availability



Top product (Satisfaction guarantee)

SYPHILIS (*Treponema pallidum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
TmpA	RAG0073	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
Tpp15	RAG0009	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	RAG0009BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp15 biotinylated
Tpp17	RAG0008	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	RAG0008BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp17 biotinylated
Tpp47	RAG0010	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Membrane lipoprotein
	RAG0010BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Tpp47 biotinylated
ChimSyphilis1	RAG0046	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (Tpp17 and Tpp47)
	RAG0046BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimSyphilis1 biotinylated
ChimSyphilis2	RAG0064	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (Tpp15 and TmpA)
	RAG0064BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimSyphilis2 biotinylated

TYPHOID FEVER (*Salmonella typhi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Flagellin	RAG0032	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	The flagella antigen of <i>Salmonella typhi</i>
OMP	RAG0021	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane protein

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

CANDIDIASIS (*Candida albicans*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Enolase	RAG0044	<i>E. coli</i>	WB, DB, IE, DE	Antigen corresponding to the glycolytic enzyme 2-phosphoD-glycerate hydrolyase

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

ANIMAL INFECTIOUS DISEASES



Rekom Biotech also offers **recombinant proteins** for *in vitro* diagnosis of **animal infectious diseases**. Our goal is to offer the *in vitro* diagnostic sector for **veterinary** use, a wide catalog of recombinant proteins for diseases produced in pets and farm animals. Take a look at our portfolio!



AFRICAN SWINE FEVER (ASF)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
ChimASFV	RAG0048 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for ASF

For diagnosis of the disease in pigs.

Acquired feline immunodeficiency syndrome (FIV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gp40	RAG0066 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Transmembrane subunit of the 150 kDa envelope glycoprotein
p24	RAG0013 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Feline immunodeficiency virus (FIV) core antigen p24
p15	RAG0015 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Matrix protein

For diagnosis of the disease in cats.

ANAPLASMOSIS (*Anaplasma phagocytophilum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p44 *	RAG0026	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>A.phagocytophilum</i>

For diagnosis of the disease in dogs, cats, horses, sheep and cattle.
***Specific Antibodies:** Polyclonal antibody against Anaplasmosis (p. 57)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)



BABESIOSIS (Piroplasmosis)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
BcMSA1	RAG0020 (Bc)	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Merozoite Surface Antigen for <i>Babesia canis</i>
	RAG0020BIOT	<i>P. pastoris</i>	WB, DB, CE, NP, PO	BcMSA1 biotinylated
Bc28.1	RAG0029 (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	The major member of the Bc28 multigenic family
BcSA1	RAG0012 (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	BcSA1 surface antigen for <i>Babesia canis</i>
ChimBc 	RAG0040 (Bc)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	Recombinant chimeric antigen for <i>Babesia canis</i>
ChimBg  new!	RAG0045 (Bg)	<i>E. coli</i>	WB, DB, EI, ED, CLIA, LF	Recombinant chimeric antigen for <i>Babesia gibsoni</i>

For diagnosis of the disease in dogs.

BORRELIOSIS or LYME DISEASE

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
ospC	RAG0042 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. afzelii</i>
	RAG0043 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. burgdorferi</i>
	RAG0034 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Outer membrane antigen for <i>B. garinii</i>
flagellin B	RAG0054 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. afzelii</i> 41 kDa flagellin B protein
	RAG0055 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. burgdorferi</i> 41 kDa flagellin B protein
	RAG0072 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Internal central portion of <i>B. garinii</i> 41 kDa flagellin B protein
VlsE 	RAG0022 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. garinii</i>
	RAG0027 (Bb)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen VlsE for <i>B. burgdorferi</i>
	RAG0102 (Ba)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major variable Surface antigen for <i>B. afzelii</i>

For diagnosis of the disease in dogs, horses and occasionally in beef cattle.

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
1F8*	RAG0003	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Calcium-binding flagellar antigen
B13*	RAG0103	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	CA-2 surface antigen, oka. Ag2, PEP2, TcR34
FRA*	RAG0005	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Cytoskeleton assoc. antigen, oka. Ag1, JL7, H49
	RAG0005BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	FRA biotinylated
ChimChagas1*	RAG0093 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
ChimChagas2*	RAG0094 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0094BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas2 biotinylated
ChimChagas3*	RAG0096 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
	RAG0096BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	ChimChagas3 biotinylated

For diagnosis of the disease in dogs.

***Specific Antibodies:** Polyclonal antibody against Chagas (p. 56)

DIROFILARIASIS (*Dirofilaria immitis*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
ChimDiT33	RAG0014 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant quimeric antigen for <i>Dirofilaria immitis</i>

For diagnosis of the disease in dogs, cats, ferrets, cattle, foxes, coyotes, sea lions.

EHRlichIOSIS (*Ehrlichia canis*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gp19 *	RAG0025 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Glycoprotein gp19 of <i>Ehrlichia canis</i>

For diagnosis of the disease in dogs.

***Specific Antibodies:** Polyclonal antibody against Ehrlichiosis (p. 57)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)



FELINE LEUKEMIA VIRUS (FeLV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p27	RAG0078 <i>new!</i>	<i>E. coli</i>	Antibody production, internal control	Core antigen

For diagnosis of the disease in cats.

LEISHMANIOSIS (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
K39	RAG0061 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen
	RAG0061BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	K39 biotinylated
KMP11	RAG0038	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Kinetoplastid membrane antigen of 11 kDa

For diagnosis of the disease in dogs and cats.

LEPTOSPIROSIS (*Leptospira interrogans*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
LipL32 *	RAG0077	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major outer membrane antigen, lipoprotein
	RAG0063	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	LipL32 in <i>P. pastoris</i>
LipL21 *	RAG0100	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	The second most abundant protein <i>L. interrogans</i>
ChimLip1 *	RAG0019 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>
	RAG0037 <i>new!</i>	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	
ChimLip2	RAG0031 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>
ChimLip3	RAG0076 <i>new!</i>	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen for <i>L. interrogans</i>

For diagnosis of the disease in dogs, beef cattle, pigs and horses.

*Specific Antibodies: Polyclonal antibody against Leptospirosis (p. 57)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



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 *under availability



Top product (Satisfaction guarantee)

NEOSPOROSIS (*Neospora caninum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NcGRA7	RAG0024	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Neospora caninum</i> dense granule antigen GRA7
	RAG0024BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	NcGRA7 biotinylated

For diagnosis of the disease in warm-blooded mammals, mainly dogs and cattle

TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p29 (GRA7)*	RAG0083	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
p30 (SAG1)*	RAG0011 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Major surface antigen
	RAG0030	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	p30 (SAG1) in <i>P. pastoris</i>
p35 (GRA8)*	RAG0084	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dense granule antigen
ChimToxo1*	RAG0058	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen (SAG1 and GRA8)

For diagnosis of the disease in warm-blooded animals.

***Specific Antibodies:** Polyclonal antibody against GRA7/GRA8 and SAG1 (p. 56)

TUBERCULOSIS (*Mycobacterium tuberculosis*, Koch's bacillus)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
CFP10 *	RAG0050	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Culture filtrate antigen of 10 kDa
CFP10:ESAT6*	RAG0060	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

For diagnosis of the disease in cattle.

***Specific Antibodies:** Polyclonal antibody against Tuberculosis (p. 56)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)



WEST NILE VIRUS (WNV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
E	RAG0001	<i>E. coli</i>	WB, DB, IE, DE	Envelope glycoprotein
	RAG0065	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

For diagnosis of the disease in birds and mammals, common in horses.

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)



ALLERGIES



Rekom Biotech also offers **recombinant proteins** for *in vitro* diagnosis of allergies (type I allergic disorders).

A wide variety of protean **allergens** from our environment are proteins coming from food, dust mites, pollens from trees and grasses; and other natural products. These environmental proteins come primarily from non-pathogenic eukaryotic organisms (animals and plants) and are essentially innocuous. However, in some cases, our immune system reacts to them, unintentionally causing damage to our tissues and vital organs that occasionally generates serious systemic pathologies.

The development of **recombinant allergens** provides new opportunities for the improvement of the diagnosis of immunoglobulin E (IgE) mediated allergies, given that they present capacity for binding these antibodies in a comparable way to natural allergens and generally show good reactivity in *in vitro* **diagnostic test**. For this reason, recombinant allergens are of a great interest to both the research field and the development of new diagnostic test for **IgE quantification** in the clinical routine. The measure of circulating IgE antibodies specific for a determined allergen provides information about the patient sensitisation to this allergen. In general, low IgE levels would indicate a low probability of developing a clinical disease, while high IgE levels would show a high correlation of developing disease.

Our recombinant allergens have been evaluated by means of an external study developed by a group of prestigious allergists at the Virgen de la Macarena Hospital in Seville (Spain), using samples from positive and negative patient sera. In these tests, specific IgE has been determined by the skin prick test (SPT) and the UniCAP® test. From these assays, we obtained incidence data for each antigen, which we later compared with that described in the literature, obtaining a very good correlation. Through an adequate diagnostic test incorporating our proteins, it would be possible to determine the allergen to which the patient is reacting and the levels of specific IgE to this allergen. This quantification will allow to

predict more accurately the chance of the patient developing an allergy, and thus the need for appropriate treatment.

We design and produce recombinant proteins for allergies caused by domestic animals and indoor allergens, pollen, mold and food. Take a look at our portfolio!



DOMESTIC ANIMALS
AND INDOOR



POLLEN



MOLD



FOOD



INDOOR



Can f 5
Can f 5

Equ c 1
Equ c 1

Der f 2
Der f 2

Fel d 1
Fel d 1

Der p 10
Der p 10

Lep d 2
Lep d 2

ANIMAL

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Fel d 1	RAL0023 🏆	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Cat (<i>Felis domesticus</i>). Uteroglobulin (chain 1)
Can f 1	RAL0016 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Dog (<i>Canis familiaris</i>). Lipocalin
	RAL0026	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	
Can f 5	RAL0014 🏆	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Dog urine (<i>Canis familiaris</i>). Arginine esterase, prostatic kallikrein
Equ c 1	RAL0007	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Domestic Horse (<i>Equus caballus</i>). Lipocalin
	RAL0022	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

DUST MITES

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Der f 2	RAL0013	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For American house dust mite (<i>Dermatophagoides farinae</i>). NPC2 family
Der p 10	RAL0015	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For European house dust mite (<i>Dermatophagoides pteronyssinus</i>). Tropomyosin
Lep d 2	RAL0008 🏆	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Storage mite (<i>Lepidoglyphus destructor</i>). NPC2 family

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

POLLEN



Art v 1
Art v 1

Art v 3
Art v 3

Bet v 1
Bet v 1

Bet v 4
Bet v 4

Par j 2
Par j 2

Pla a 1
Pla a 1

Pla a 3
Pla a 3

Sal k 1
Sal k 1

Phl p 5a
Phl p 5a

Phl p 12
Phl p 12

Phl p 5b
Phl p 5b

Ole e 5
Ole e 5

Ole e 1
Ole e 1

Ole e 2
Ole e 2

Phl p 1
Phl p 1

Phl p 7
Phl p 7

EUROPEAN WHITE BIRCH (*Betula verrucosa*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Bet v 1	RAL0011 	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Pathogenesis-related protein (PR-10)
Bet v 4	RAL0009	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Polcalcin

LONDON PLANE TREE (*Platanus acerifolia*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Pla a 1	RAL0019	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Invertase inhibitor
Pla a 3	RAL0021	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Non-specific lipid transfer protein type 1 (LTP)

MUGWORT POLLEN (*Artemisia vulgaris*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Art v 1	RAL0005 	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Defensin-like protein
Art v 3	RAL0006	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Non-specific lipid transfer protein type 1 (LTP)
	RAL0048	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	

OLIVE TREE (*Olea europaea*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Ole e 1	RAL0012 	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Proteins similar to Ole e 1
Ole e 2	RAL0010	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Profilin
Ole e 5	RAL0047	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Superoxide dismutase [Cu-Zn]

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

PELLITORY-OF-THE-WALL (*Parietaria judaica*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Par j 2	RAL0020	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Phospholipid transfer protein (LTP)

RUSSIAN THISTLE (*Salsola kali*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Sal k 1	RAL0018	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Pectin methylesterase

TIMOTHY GRASS POLLEN (*Phleum pratense*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Phl p 1	RAL0001	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Beta-expansin
Phl p 5a	RAL0003	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Unknown
	RAL0003BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Phl p 5a biotinylated
Phl p 5b	RAL0017	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Unknown
Phl p 7	RAL0002	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Polcalcin
Phl p 12	RAL0004	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Profilin

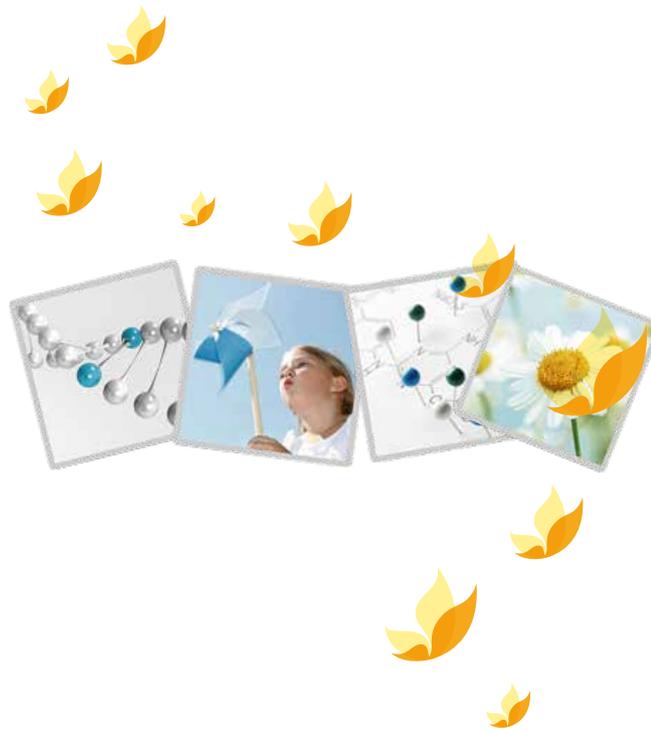
WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)



MOLD



Alt a 1
Alt a 1

ALTERNARIA PLANT ROT FUNGUS (*Alternaria alternata*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Alt a 1	RAL0025	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Unknown

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich ELISA
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

FOOD



Tri a 19
Tri a 19

Ara h 9
Ara h 9

α S1-casein
 α S1-casein

β -lactoglobulin
 β -lactoglobulin

α S2-casein
 α S2-casein

α -lactalbumin
 α -lactalbumin

Gal d 1
Gal d 1

Gad c 1
Gad c 1

Ara h 2
Ara h 2

β -casein
 β -casein

Mal d 3
Mal d 3

CEREAL

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Tri a 19	RAL0053	<i>E. coli</i>	WB, DB, IE, DE	For Wheat (<i>Triticum aestivum</i>). Omega-5 gliadin, seed storage protein
	RAL0053BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Tri a 19 biotinylated

FISH

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Gad c 1	RAL0035	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Baltic cod (<i>Gadus callarias</i>). Beta-parvalbumin

EGG

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Gal d 1	RAL0033	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Chicken egg (<i>Gallus domesticus</i>). Ovomucoid

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

MILK

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
αS1-casein	RAL0027	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk (<i>Bos domesticus</i>). Casein, oka. Bos d 9
β-casein	RAL0029	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk (<i>Bos domesticus</i>). Casein, oka. Bos d 11
β-lactoglobulin	RAL0032	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk (<i>Bos domesticus</i>). Beta-lactoglobulin, oka. Bos d 5
α-lactalbumin	RAL0031	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk (<i>Bos domesticus</i>). Alpha-lactalbumin, oka. Bos d 4
αS2-casein	RAL0028 new!	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Caw milk (<i>Bos domesticus</i>). Casein, oka. Bos d 10

NUT

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Ara h 9	RAL0049 new!	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For peanut, groundnut (<i>Arachis hypogaea</i>). Nonspecific lipid-transfer protein type 1
Ara h 2	RAL0040 new!	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	For peanut, groundnut (<i>Arachis hypogaea</i>). Conglutin (2S albumin)

ROSACEOUS

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Mal d 3	RAL0039	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	For Apple (<i>Malus domestica</i>). Non-specific lipid transfer protein type 1 (nsLTP1)

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation



Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

External validation

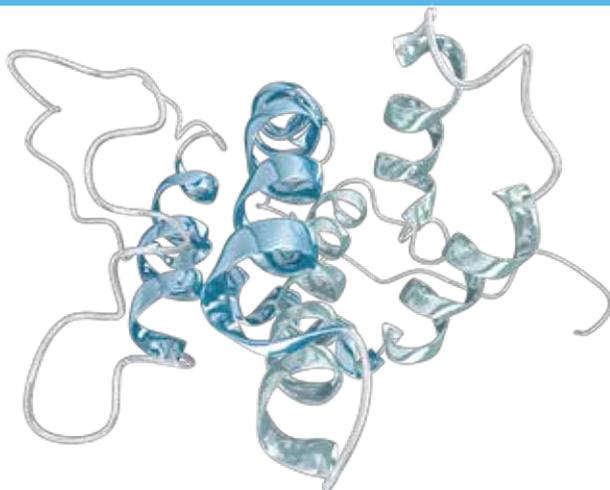
Our bioallergens have been evaluated in an external study carried out at a Spanish hospital by a group of allergists with positive and negative serum samples from patients. The evaluation of the recombinant allergens has been performed by means of an *in-house* ELISA assay. In this immunoassay, it has been determined the presence of specific IgE in sera that had previously been validated by skin prick testing (SPT) and the UniCAP® test. The sera panels specific for each group of allergens were composed of 25 positive sera and 10 total IgE negative specimen sera.

The following chart shows the good correlation found between the incidence rates described in bibliography and the incidence rates found in the external study carried out by the hospital with our bioallergens:



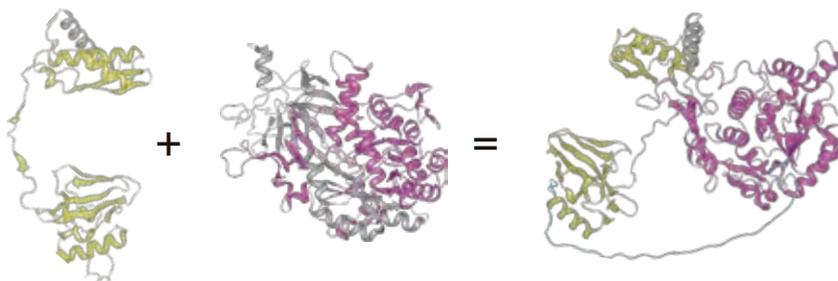
GROUP	ALLERGEN	CAT NUMBER	INCIDENCE RATES	
			BIBLIOGRAPHY	HOSPITAL VALIDATION
Timothy grass	Phl p 1	RAL0001	70%-100%	92%
	Phl p 5a	RAL0003	60%-93%	60%
	Phl p 5b	RAL0017	60%-93%	56%
	Phl p 7	RAL0002	10%	44%
	Phl p 12	RAL0004	20%	36%
Olive	Ole e 1	RAL0012	70%	100%
	Ole e 2	RAL0010	20%-47%	40%
Animal epithelial	Can f 1	RAL0016	90%	84%-100%
	Fel d 1	RAL0023	90%	76%-84%
Dust mites	Der f 2	RAL0013	98%	78%
	Der p 10	RAL0015	5.6%	5.6%
	Lep d 2	RAL0008	>75%	72%
Russian thistle	Sal k 1	RAL0018	66.66%	67.67%

CHIMERAS



At Rekom Biotech, we use computational methods to access structural models of antigenic molecules. This allows us to select specific antigenic domains from different proteins. We then combine them using long, short, flexible, or rigid linkers to enable simultaneous interaction of every epitope with its corresponding paratope. By avoiding steric hindrance, by using the appropriate linker, two or three different antibodies can interact with the multi-epitope molecule, **increasing sensitivity**. Our chimeric multi-epitope proteins are also **highly specific** as we select domains that differentiate this microorganism from its counterparts.

In addition, using multi-epitope chimeric proteins has another significant benefit of **eliminating the need for protein mixtures in assays**. When using protein mixtures, the limited number of binding sites and varying affinities of proteins for these sites may lead to issues with reproducibility.



NAME	CAT NUMBER	SOURCE	APPLICATION	DISEASE / MICROORGANISM	
ChimASFV	RAG0048	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	African Swine Fever	
ChimBc	RAG0040 (Bc) 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Babesiosis (or piroplasmosis)	
ChimBg	RAG0045 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimChagas1	RAG0093 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimChagas2	RAG0094 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Chagas (<i>Trypanosoma cruzi</i>)	
	RAG0094BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO		
ChimChagas3	RAG0096 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
	RAG0096BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO		
ChimCMV1	RAG0109 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		Cytomegalovirus
	RAG0109BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO		
ChimCMV2	RAG0110	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
	RAG0110BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO		
ChimCMV3	RAG0018	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimDiT33	RAG0014 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Dirofilariasis (<i>Dirofilaria immitis</i>)	
ChimEBV-EA	RAG0082	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Epstein-Barr virus	
ChimEBV-VCA	RAG0081	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimLip1	RAG0019	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Leptospirosis (<i>Leptospira interrogans</i>)	
	RAG0037	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF		
ChimLip2	RAG0031	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimLip3	RAG0076	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
VI sE	RAG0027 (Bb) 🏆	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Lyme borreliosis	
	RAG0022 (Bg)	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
ChimMp	RAG0051	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	<i>Mycoplasma pneumoniae</i> infection	
ChimSyphilis1	RAG0046	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Syphilis (<i>Treponema pallidum</i>)	
	RAG0046BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO		
ChimSyphilis2	RAG0064	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF		
	RAG0064BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO		
ChimToxo1	RAG0058	<i>P. pastoris</i>	WB, DB, IE, DE, CLIA, LF	Toxoplasmosis (<i>Toxoplasma gondii</i>)	
CFP10:ESAT6	RAG0060	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Tuberculosis (<i>Mycobacterium tuberculosis</i>)	

MONOBIOTINYLATED PROTEINS



In Rekom Biotech we have developed a product line of monobiotinylated proteins, offering some of our catalog numbers with a biotin in their C-terminus. This molecule allows the specific interaction of biotinylated proteins to streptavidin.

Our biotinylated proteins are bonded to a BCCP-tag in the C-terminus, with a lysine residue which is enzymatically biotinylated by the *E. coli* biotin ligase BirA. This single-point labelling technique has many advantages for commonly used binding assays:

- ▶ The biotinylation only happens on the lysine residue of the BCCP tag.
- ▶ There is NO interference with the target protein's natural binding activities.
- ▶ The protein orientation is uniform when immobilized on a streptavidin-coated surface such as nanoparticles.

AIDS (HIV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p24	RAG0057BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Viral capsid antigen
CANINE BABESIOSIS (CANINE PIROPLASMOSIS)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
BcMSA1	RAG0020BIOT	<i>P. pastoris</i>	WB, DB, CE, NP, PO	Merozoite Surface Antigen for <i>Babesia canis</i>
CHAGAS (<i>Trypanosoma cruzi</i>)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
FRA	RAG0005BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Recombinant chimeric antigen
ChimChagas2	RAG0094BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Recombinant chimeric antigen
ChimChagas3	RAG0096BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Recombinant chimeric antigen
CYTOMEGALOVIRUS (CMV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
pp52	RAG0090BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	DNA polymerase processivity subunit
ChimCMV1	RAG0109BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant chimeric antigen
ChimCMV2	RAG0110BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant chimeric antigen
Epstein-Barr virus infection (EBV)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p18	RAG0049BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Viral capsid antigen
Leishmaniasis (<i>Leishmania infantum</i>)				
NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
K39	RAG0061BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Parasite kinesin-related antigen

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

NEOSPOROSIS (*Neospora caninum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
NcGRA7	RAG0024BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Nc dense granule antigen GRA7

ORAL HERPES produced by HSV-1 (*Herpes simplex virus type 1*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gG1	RAG0017BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Recombinant mature glycoprotein G for HSV-1

TIMOTHY GRASS POLLEN (*Phleum pratense*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Phl p 5a	RAL0003BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Phl p 5a

SYPHILIS (*Treponema pallidum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Tpp15	RAG0009BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
Tpp17	RAG0008BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
Tpp47	RAG0010BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	Membrane lipoprotein
ChimSyphilis1	RAG0046BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	R. chimeric antigen (Tpp17 and Tpp47)
ChimSyphilis2	RAG0064BIOT	<i>E. coli</i>	WB, DB, CE, DAS, NP, PO	R. chimeric antigen (Tpp15 and TmpA)

CEREAL

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
Tri a 19	RAL0053BIOT	<i>E. coli</i>	WB, DB, CE, NP, PO	Omega-5 gliadin, seed storage protein

WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

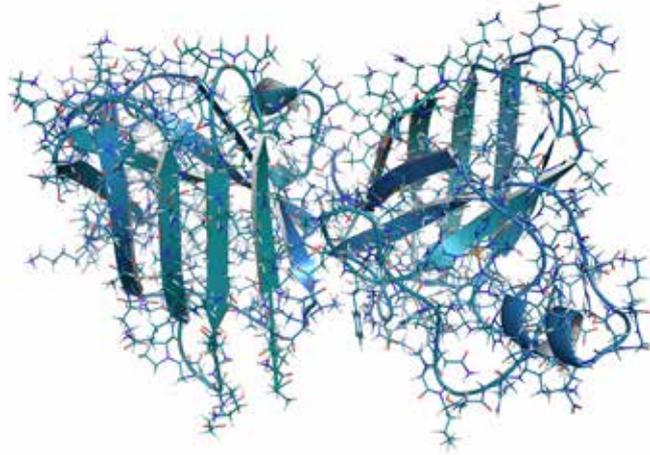
Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



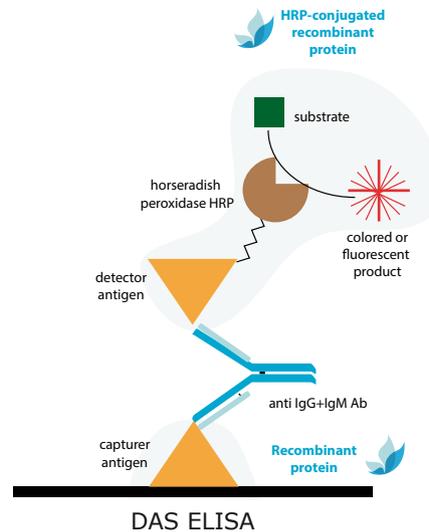
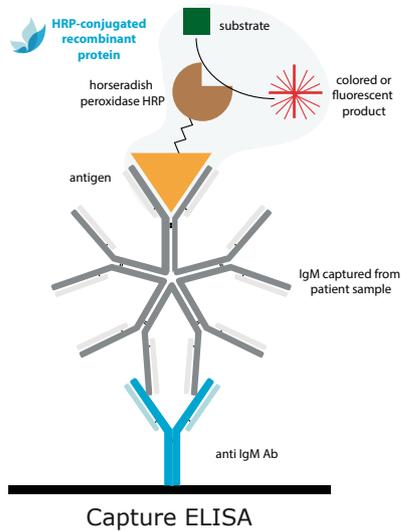
Top product (Satisfaction guarantee)



HRP-CONJUGATED PROTEINS



In case you want to develop a Capture ELISA or a Double Antigen Sandwich (DAS) ELISA assay and you do not have time or means to conjugate our protein to HorseRadish Peroxidase (HRP), we offer HRP-conjugated proteins for some of our catalog numbers.



CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
ChimChagas1	RAG0093	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
ChimChagas2	RAG0094	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen
ChimChagas3	RAG0096	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

CYTOMEGALOVIRUS (CMV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
pp52	RAG0090	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	DNA polymerase processivity subunit
pp150	RAG0091	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral matrix phosphoprotein
ChimCMV1	RAG0109	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant chimeric antigen

Epstein-Barr virus infection (EBV)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
p18	RAG0049	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Viral capsid antigen

Leishmaniasis (*Leishmania infantum*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
K39	RAG0061	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Parasite kinesin-related antigen

ORAL HERPES produced by HSV-1 (*Herpes simplex virus type 1*)

NAME	CAT NUMBER	SOURCE	APPLICATION	DESCRIPTION
gG1	RAG0017	<i>E. coli</i>	WB, DB, IE, DE, CLIA, LF	Recombinant mature glycoprotein G for HSV-1

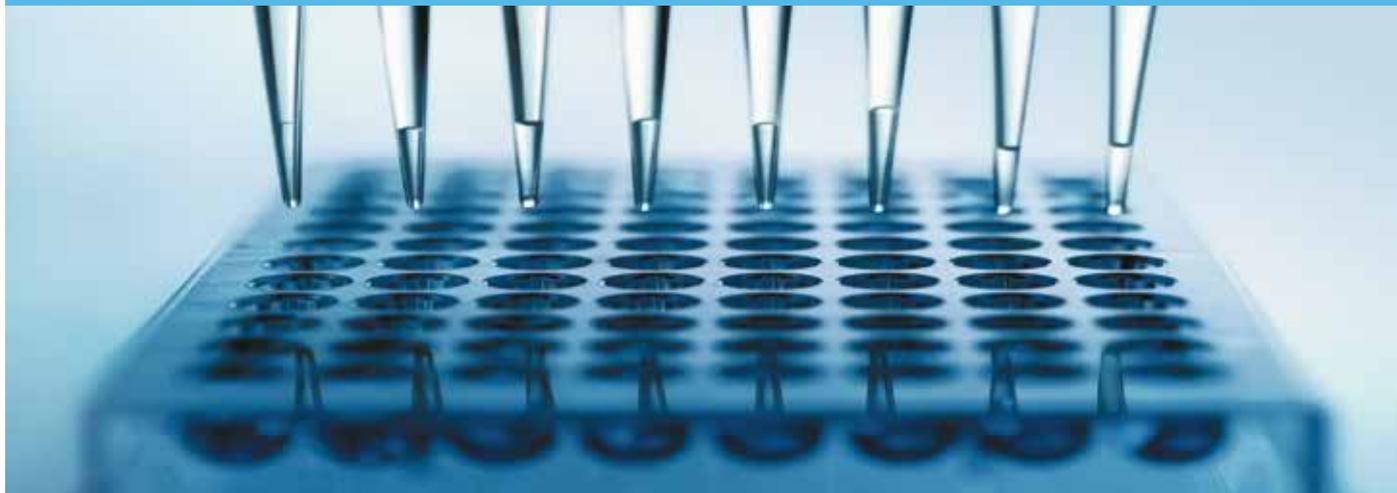
WB: Western Blot
 DB: Dot Blot
 IE: Indirect ELISA
 DE: positive control in direct ELISA
 CLIA: Chemiluminescent Immunoassay
 LF: Lateral Flow
 CE: Capture ELISA
 DAS: Double antigen sandwich
 NP: nanoparticles binding
 PO: plate orientation

Pack size: 0.1 mg*; 1 mg; bulk
 Format: liquid; lyophilised
 *under availability



Top product (Satisfaction guarantee)

CUSTOM-MADE PROTEINS



If you are a manufacturer of *in vitro* diagnostic tests, and you want to develop a new assay, but you cannot find the right appropriate IVD reagent on the market, we offer our design and production service of custom-made **recombinant proteins**. This service includes the initial design of the protein and its optimal production in *Escherichia coli* or in *Pichia pastoris* as heterologous expression systems.

We like to work closely with our customers to understand their problems and provide them with products totally adapted to their needs. Do not hesitate to contact us! We will develop a custom plan to help you develop the test you are looking for.

SERVICE DETAILS

- ▶ The price of the service guarantees 3 to 5 mg of protein.
- ▶ Purity greater than 95%, analysed by SDS-PAGE Coomassie-stained gels.
- ▶ The purified protein can be sent with dry ice (liquid form) or at room temperature (lyophilized form), depending on the destination country.
- ▶ A detailed data-sheet including the characteristics of the recombinant protein and QC performed will be provided.
- ▶ The protein will be available for further bulk orders at reduced price by increasing the required amounts.
- ▶ The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.

Study of the project

Study of the gene sequence, theoretical sequence analysis, selection of a heterologous expression system, selection of the optimal expression vector, design of the specific primers, codon optimization of the gene, etc.

DNA construction

Amplification by PCR, clone of the target DNA in a selected expression vector, validation of the selected clone by sequencing and restriction analysis. Possibility of using different fusion tails and different secretion peptides

Optimisation of expression levels

Screening and selection of induction conditions, expression and solubility, MCB and WCB stocks production, for reproducibility of future lots, etc.

Protein delivery

Storage in sterile labeled plastic vials at -80°C until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized protein.

Project information

Keeping you constantly informed on the project progress

Quality control

Purity, integrity, stability, macroaggregation and microaggregation (SEC), western blot analysis, MALDI-TOF and immunoassays (western blot, ELISA)

Formulation

Optimization of the formulation of the protein storage buffer based on the use that will be subsequently given to the required protein

Downstream procedure

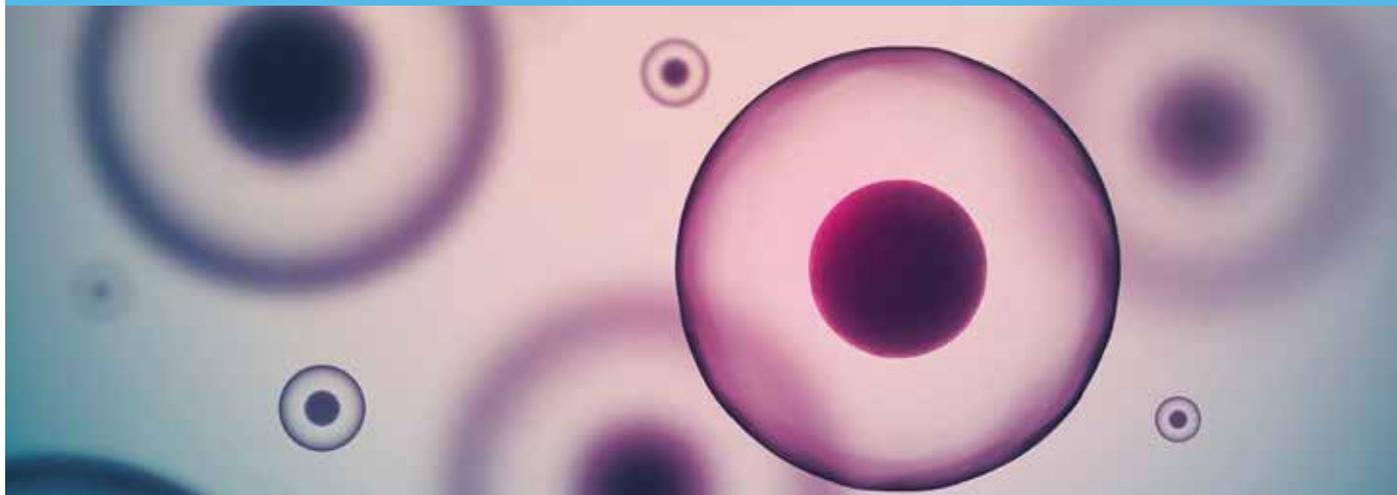
Design of the complete process of purification of the target protein by using different chromatographic procedures, ultrafiltration, diafiltration, etc.

Upstream procedure

Obtention of the seed in batch by shaker and scale-up to bio-fermenters



IMMUNOASSAY BLOCKERS

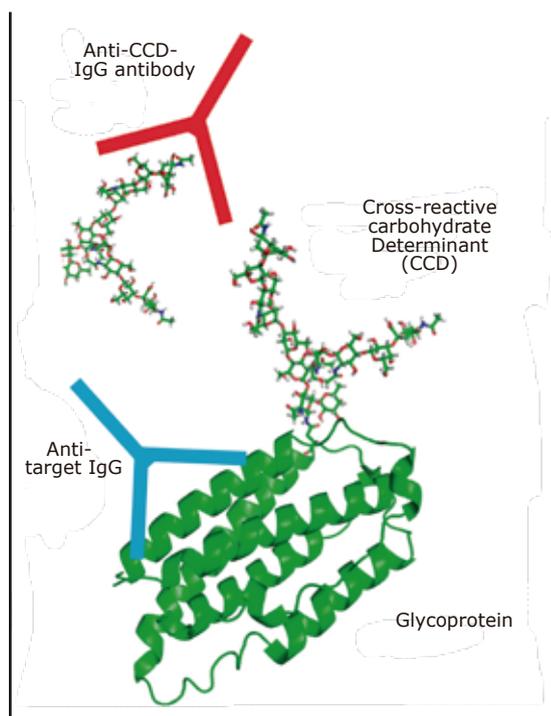


At Rekom Biotech we want to offer you more than just raw material for your *in vitro* diagnostics tests. That is why we have created a line of immunoassay blockers, so you can add them to your IVD assays and solve some of the problems you find in your workday routine.

Immunoassay blockers are used in diagnostic assays to reduce non-specific binding and other interference than could lead to false-positive results and, thus, an incorrect diagnosis. The blockers work by reducing the non-specific binding, increasing the signal-to-noise ratio. They can avoid (i) unspecific interactions with the solid-phase, and non-target proteins; (ii) and specific interactions with endogenous antibodies present within the specimen sample, which are not the specific target antibodies. An example of the latter are antibody interferences from HAMA, HA, RF and IgG (for IgM detection).

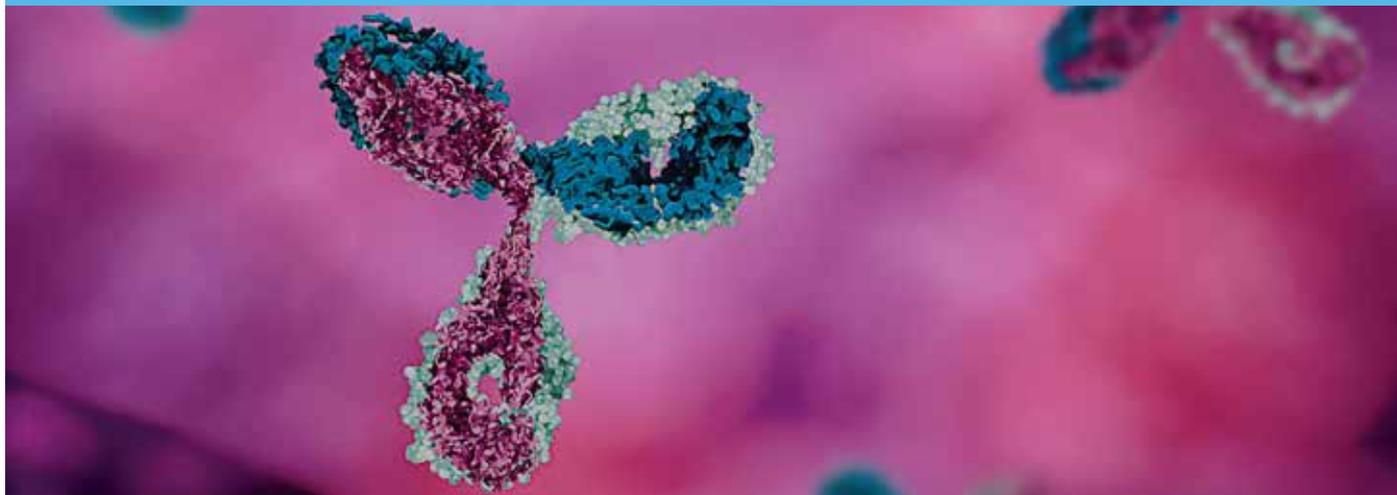
NAME	CAT NUMBER	DESCRIPTION
Blocker for anti-cross-reactive carbohydrate determinants (CCD) antibodies	SOR0001	Solution of several glycoconjugates

Pack size: 1 mg
Format: lyophilised



Some human normal sera contains IgG antibodies against mannan from various pathogenic *Candida* species. This makes them able to interact with CCD structures of the proteins produced in *Pichia pastoris*. With the addition of this blocker, the anti-CCD antibodies will be kidnapped, so the specificity of the assay will increase.

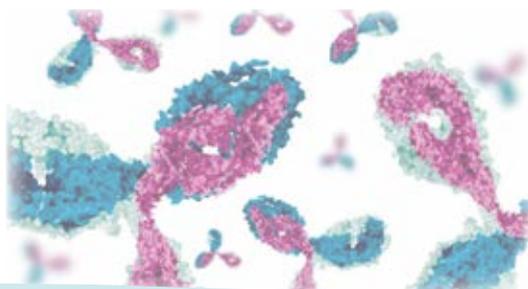
POLYCLONAL ANTIBODIES



In Rekom Biotech we have opted for a new range of antibodies for the *in vitro* diagnostic industry, starting with **polyclonal antibodies**.

Polyclonal antibodies are able to recognize multiple epitopes of an antigen, and this usually leads to a strong signal. Furthermore, we reduce the broader background obtained by using an affinity chromatography. They are the right ones to choose when you need cost efficient and high affinity antibodies. They are mainly used in capture assays of a specific antigen in specimen samples (**antigen test**).

Our goal is to offer the *in vitro* diagnostics sector a growing catalog of polyclonal antibodies, starting with those corresponding to our most requested proteins. Take a look at our portfolio!



CYTOMEGALOVIRUS (CMV)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-pp52	PAB0001	Rabbit	pp52 (p. 12)	WB: 1/3,000-1/3,500 ELISA: 1/25,600-1/51,200
Anti-pp150	PAB0002	Rabbit	pp150 (p. 12)	WB: 1/3,000 ELISA: 1/12,800 - 1/25,600
Anti-pp65	PAB0003	Rabbit	pp65 (p. 12)	WB: 1/4,500-1/5,000 ELISA: 1/51,200-1/102,400

Anti-cross-reactive carbohydrate determinants (CCD) antibodies

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-CCD	PAB0004	Rabbit	CCD (p. 42)	WB: 1/4,500-1/5,000 ELISA: 1/102,400-1/204,800

TOXOPLASMOSIS (*Toxoplasma gondii*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-GRA7/GRA8	PAB0005	Rabbit	GRA7 (p. 10) GRA8 (p. 10)	WB: 1:8,000-1:10,000 ELISA: 1/25,600 -1/204,800
Anti-p30 (SAG1)	PAB0010 <i>new!</i>	Rabbit	p30 (p.10)	WB: 1:2,000-1:4,000 ELISA: 1/800 -1/102,400

CHAGAS (*Trypanosoma cruzi*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-Chagas	PAB0007 <i>new!</i>	Rabbit	1F8 (p. 10) FRA (p. 10) B13 (p. 10)	WB: 1:8,000-1:10,000 ELISA: 1/1,638,400 - 1/12,800

HEPATITIS B (HBV)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-HBcAg	PAB0008 <i>new!</i>	Rabbit	HBcAg (p. 14)	WB: 1:8,000-1:10,000 ELISA: 1/6,400 - 1/819,200

TUBERCULOSIS (*Mycobacterium tuberculosis* (Koch's bacillus))

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-TB	PAB0009 <i>new!</i>	Rabbit	CFP10:ESAT6 (p. 17)	WB: 1:8,000-1:10,000 ELISA: 1/6,400 - 1/819,200

Pack size: 0.1 mg; 0.5 mg
Format: lyophilised

ATYPICAL PNEUMONIA (*Mycoplasma pneumoniae*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-<i>Mycoplasma pneumoniae</i>	PAB0011 <i>new!</i>	Rabbit	P1 (p. 16) P30 (p. 16)	WB: 1/20,000 ELISA: 1/10,000 - 1/1,280,000

LEPTOSPIROSIS (*Leptospira interrogans*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-LipL21-LipL32	PAB0012 <i>new!</i>	Rabbit	LipL21(p. 17) LipL32 (p. 17)	WB: 1/15,000 ELISA: 1/3,200 - 1/409,600

EHRlichiosis (*Ehrlichia canis*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-gp19	PAB0013 <i>new!</i>	Rabbit	gp19 (p. 17)	WB: 1/10,000 ELISA: 1/200 - 1/25,600

ANAPLASMOSIS (*Anaplasma phagocytophilum*)

NAME	CAT NUMBER	SOURCE	IMMUNOGEN	APPROX. TITER
Anti-p44	PAB0014 <i>new!</i>	Rabbit	p44 (p. 16)	WB: 1/20,000 ELISA: 1/1,600 - 1/204,800

Pack size: 0.1 mg; 0.5 mg
Format: lyophilised



CUSTOM-MADE ANTIBODIES



If you are a manufacturer of in vitro diagnostic tests, and you want to develop a new assay, but you cannot find the appropriate antibody on the market, we offer our production service of custom-made **polyclonal antibodies**.

We like to work closely with our customers to understand their problems and provide them with products totally adapted to their needs. Do not hesitate to contact us! We will develop a custom plan to help you develop the test you are looking for.

SERVICE DETAILS

- ▶ The price of the service guarantees up to 10 mg of antibody, aliquoted in 1 mg fractions.
- ▶ The purified antibody can be sent with dry ice (liquid form) or at room temperature (lyophilised form), depending on the destination country.
- ▶ A detailed data-sheet including the characteristics of the antibody and QC performed will be provided.
- ▶ The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.

Antibody generation

Immunization of a 10-week-old New Zealand white rabbit (female). Inoculations with a total of 5 mg of protein and bleeding at 3 months (approximately)

Antibody delivery

Storage in sterile labeled plastic vials at -80°C until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized antibody

Project information

Keeping you constantly informed on the project progress

Validation and quality control

ELISA and Western blot titration using the protein inoculated to the rabbit

Antibody purification

Purification of the antibody obtained from immune blood by affinity chromatography (protein G)



CUSTOM-MADE ANTIBODIES



If you are a manufacturer of in vitro diagnostic tests, and you want to develop a new assay, but you cannot find the appropriate antibody on the market, we offer our production service of custom-made **polyclonal antibodies**.

We like to work closely with our customers to understand their problems and provide them with products totally adapted to their needs. Do not hesitate to contact us! We will develop a custom plan to help you develop the test you are looking for.

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QUALITY MANAGEMENT



Rekom Biotech is committed to ensure the highest quality level in the design and production of raw material for the IVD manufacturing industry.

Rekom Biotech products are designed, developed, manufactured and distributed according to our Quality Management System that is **certified by ISO 9001:2015 and ISO 13485:2016 standards**. Our IVD reagents are always manufactured according to Standard Operating Procedures (SOPs) and undergo rigorous quality controls in our laboratories.

We are authorised to work with genetic modified organisms (GMO), with the license number A/ES/19/I-22, issued by National Biosafety Commission.

We are registered as a **Innovative SME**.



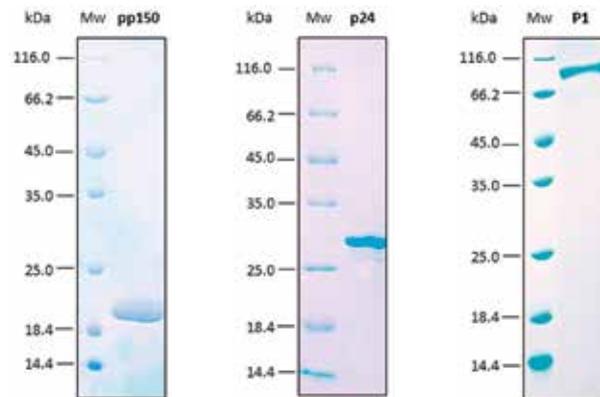
Each lot is subjected to various quality controls:

► **Concentration detection by spectrophotometry**

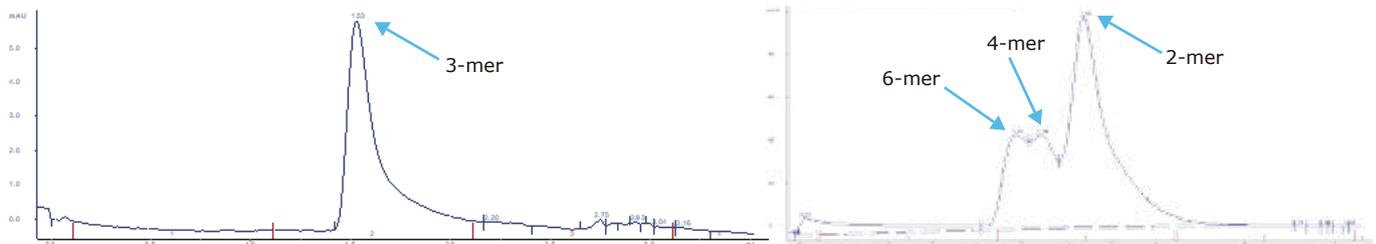
As the determination of accurate extinction coefficients is straightforward, ultraviolet absorption spectroscopy is preferred over chemical methods, such as the Lowry or Bradford methods. The measurement of the protein concentration is performed with the theoretical extinction coefficient of the recombinant protein obtained from Gill and von Hippel, 1989.

However, for proteins that do not contain any Trp residues, experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we measure the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues (Bradford Method) with a maximum absorption shift from 470 nm to 595 nm (Bradford, 1976).

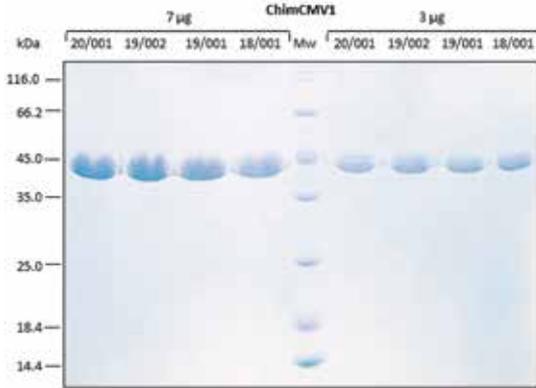
► **Purity determination by SDS-PAGE**



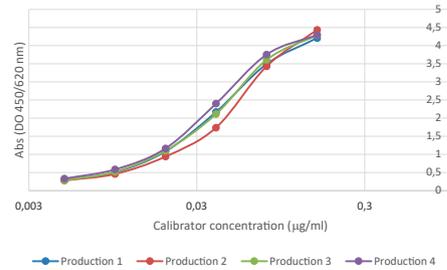
► **Aggregates, multimers or degraded species analysis by size-exclusion chromatography (SEC)**



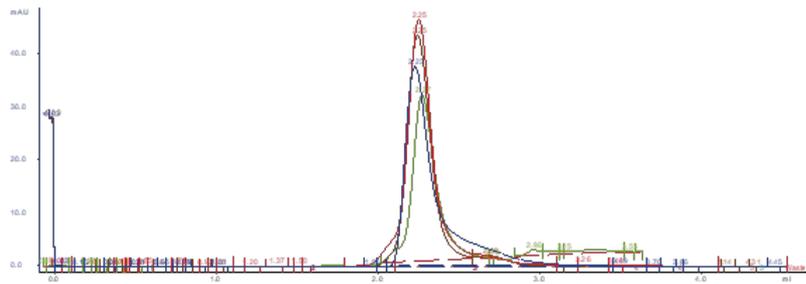
- ▶ **Lot-to-Lot Consistency.** Reproducibility analyses are performed by SDS-PAGE, SEC and ELISA assay. Excellent replicability of the production process.



SDS-PAGE analysis



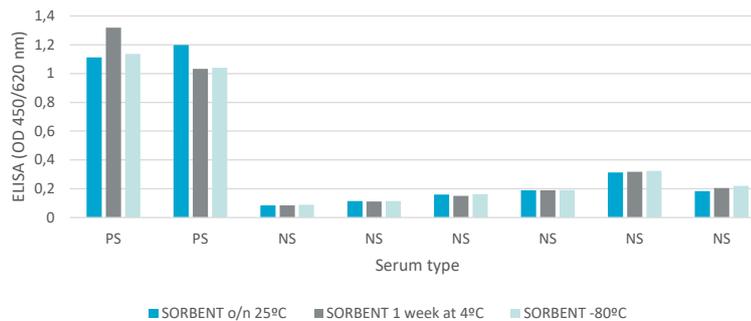
ELISA assay analysis



SEC Analysis

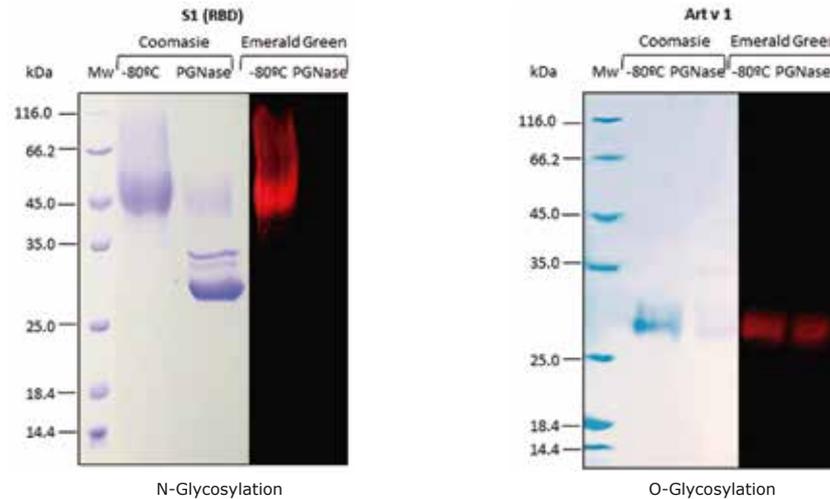
- ▶ **Storage Stability.** Relative stability with immunoassay analysis at different ambient conditions is performed.

S(RBD) 0.5 µg/ml SARS-CoV2

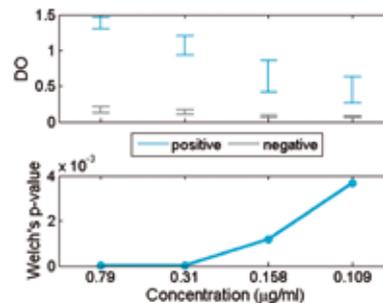


Stability of the sorbent effect at different storage times

- ▶ **Glycosylation Analysis.** For recombinant proteins produced in *Pichia pastoris*, the N-glycosylation and O-glycosylation are analysed.

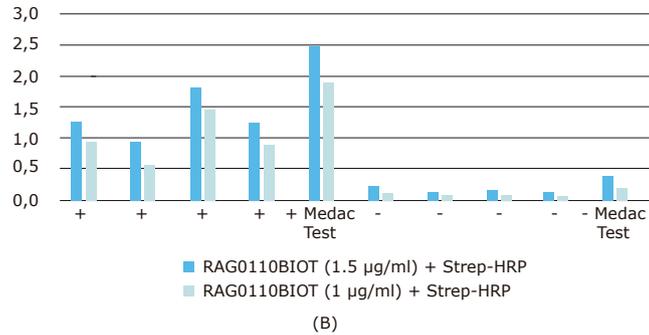
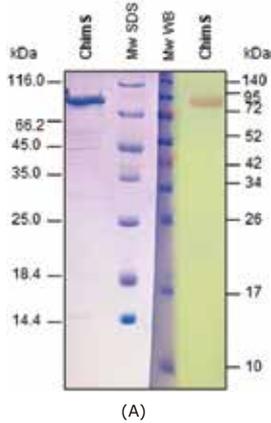


- ▶ **Immunological analyses by ELISA or Western Blot assays.** For further information, take a look at our technical report "Titration Experiments" in <https://www.rekombiotech.com/en/support/scientific-technical-information>.



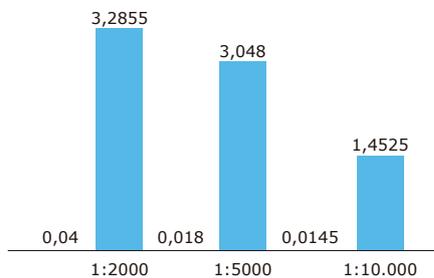
In this plot, the optical density at 450/620 nm for positive (blue) and negative (gray) **IgG** sera are compared for each concentration of the recombinant antigen. An appropriate statistical test of significance for the comparison of means between both groups, the Welch's test, is employed. Eligible concentrations for the use of the antigen should present statistically significant differences between positive and negative sera. This happens when the intervals at the top do not overlap and, equivalently, when the p-value at the bottom is below 0.05. In the present figure, all p-values are below 0.05 and thus the intervals do not overlap. Therefore, any of the showed concentrations can be used to distinguish between positive and negative sera.

- ▶ **Biotin conjugation.** Our *in vivo* monobiotinylated antigens are analysed with a western blot assay with conjugated streptavidin (A) and several ELISA assays (indirect ELISA assay in streptavidin-coated microtiter plates, capture ELISA assay with the biotinylated recombinant antigen as detector and double-antigen-sandwich ELISA assay (B)).



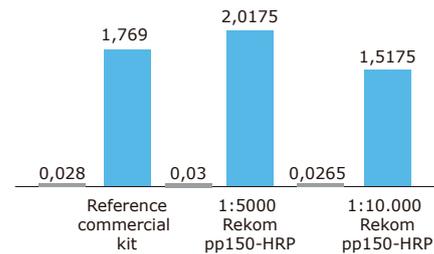
- ▶ **Peroxidase (HRP) conjugation.** As an internal quality control of an ELISA capture format, we also conjugate our antigens with peroxidase as internal quality control by using the biomarker as a developer. We perform a capture ELISA assay by using a commercial test and a double-antigen-sandwich ELISA assay.

■ Avg. OD 450/620 of - sera ■ Avg. OD 450/620 of + sera



A double antigen sandwich ELISA assay (DAS) performed with positive and negative CMV IgM specimen sera pre-validated with the ELISA capture IgM VIDAS.

■ Avg. OD 450/620 of - sera ■ Avg. OD 450/620 of + sera



A capture ELISA assay performed with two different dilutions of the Rekom pp150-HRP in a reference commercial test (CMV-IgM-eLA test PKS medac).



TECHNICAL REPORTS



Take a look at our technical reports at <https://www.rekombiotech.com/en/scientific-technical-information>:

- ▶ Tritation Experiments
- ▶ Leishmania Recombinant Antigens KMP11 and K39
- ▶ Optimization of the recombinant EBV nuclear antigen quality by improving its integrity in *Escherichia Coli*
- ▶ Recombinant chimeric antigen VlsE for *Borrelia burgdorferi*
- ▶ Evaluation of a CMV chimeric recombinant antigen, ChimCMV1, by indirect and capture elisa assays. Comparison with other CMV antigens
- ▶ Evaluation of syphilis antigens Tpp17 and Tpp47 by using an in house third generation DAS-ELISA
- ▶ SAG1 (p30) from *Toxoplasma gondii* requires maintain its native conformation to detect IgM antibodies
- ▶ Multi-epitope chimeras as a syphilis IVD working pair (RAG0046/RAG0046BIOT) for IgG+IgM antibody detection by a double-antigen sandwich (DAS) immunoassay format
- ▶ Preparation of a detection complex RAG0109BIOT-Strep-HRP ready-to-use for CMV IgM immunocapture assay
- ▶ Nucleoprotein and spike glycoprotein, a combination of two quite different antigens for COVID-19 *in vitro* diagnostic.

List of citations

You can also take a look at the bibliography performed with our products:

- ▶ Ripp U. (2013) **Suitability of LipL32 as antigen in a screening-ELISA for the detection of Leptospira-antibodies in pigs.** Thesis submitted to Institute of Animal Hygiene and Veterinary Public Health, Faculty of Veterinary Medicine, University of Leipzig
- ▶ Abass E., Bollig N., Reinhard K., Camara B., Mansour D., Visekruna A., Lohoff M., Steinhoff U. (2013) **rKLO8, a Novel Leishmania donovani - derived recombinant immunodominant protein for sensitive detection of visceral leishmaniasis in Sudan.** PLoS Negl Trop Dis 7(7): e0002322
- ▶ Zafra A., Castro A.J., Alché J.D. (2018) **Identification of novel superoxide dismutase isoenzymes in the olive (Olea europaea L.) pollen.** BMC Plant Biol 18(1): 114
- ▶ Mollett G., Bremer Hinckel B.C., Bhattacharyya T., Marlais T., Singh O.P., Mertens P., Falconar A.K., El-Safi S., Sundar S., Miles M.A. (2019) **Detection of Immunoglobulin G1 Against rK39 Improves Monitoring of Treatment Outcomes in Visceral Leishmaniasis.** Clin Infect Dis 69(7): 1130-1135
- ▶ Bremer Hinckel BC, Marlais T, Airs S, Bhattacharyya T, Imamura H, Dujardin J-C, *et al.* (2019) **Refining wet lab experiments with *in silico* searches: A rational quest for diagnostic peptides in visceral leishmaniasis.** PLoS Negl Trop Dis 13(5): e0007353
- ▶ Medeiros F.A.C., Souza Filho J.A., Barbosa J.R., Donato L.E., Figueiredo F.B., Werneck G.L., Paz G.F., Thompson M., Marcelino A.P. (2021) **Phase II validation study of the rK39 ELISA prototype for the diagnosis of canine visceral leishmaniasis in Brazil.** Cad Saude Publica. 37(3):e00041320.
- ▶ Martínez-Subiela S., Franco-Martínez L., Rubio C.P., Muñoz-Prieto A., Torres-Cantero A., Tecles F., Sánchez-Resalt C., Cerón J.J, Tvarijonavičute A. (2022) **Measurement of anti SARS-CoV-2 RBD IgG in saliva: validation of a highly sensitive assay and effects of the sampling collection method and correction by protein.** Clinical Chemistry and Laboratory Medicine (CCLM), vol. 60, no. 10, pp. 1683-1689

PRODUCT MANIPULATION



SHIPPING

Our IVD reagents are in liquid or lyophilized (dry powder) format. Their shipment will be made with dry ice in case of being in liquid format, or at room temperature in case of being in lyophilized format.

STORAGE

If the reagent is in liquid format, upon arrival, it should be aliquoted in order to avoid repeated freezing and thawing cycles and stored at -20°C to -80°C . Reagents should be maintained frozen at high concentrations. If the reagent is in lyophilized format, upon arrival, it should be stored at 4° to -20°C in vertical position, avoiding all possible humidity and maintaining the vials dry. Once reconstituted, it should be stored as previously indicated.

DEFROST

In order to defrost the product, maintain the aliquot at 25°C without shaking to avoid aggregation.



MANIPULATION

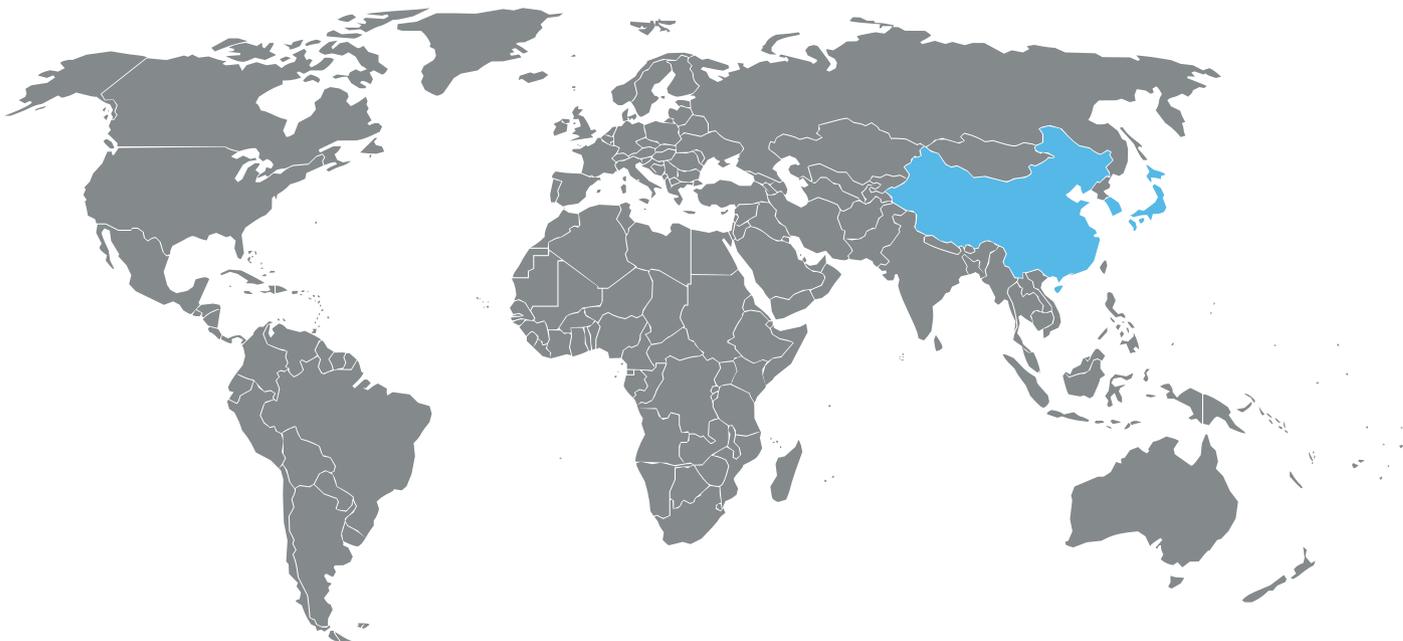
Before making test dilutions and after the protein has been defrosted, it is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilisation of the biomolecule to the solid surface.

During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μl or less, we recommend tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the containers cap. Although proteins are expressed in non-pathogenic *E. coli* and *P. pastoris* and bacterial integrity is destroyed during purification, the protein preparation should be handled as potentially infectious.

STABILITY

The reagent will remain stable for a minimum of six years if the indicated storage conditions are met. After that, a retest will be required.

DISTRIBUTORS



Rekom Biotech is a global born company and, as such, international markets are the basis of the company activity.

In most of these markets we **work directly with our customers** with the aim of offering them direct assistance and continuous support. In some others, we work with distributors in order to facilitate our customers the access to our products.

We are currently looking for established distributors in South America, Middle East, Russia and India. If you are interested in distributing Rekom Biotech's IVD reagents in one of these areas, we will be happy to hear your proposal.

CHINA

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Email: info@ambigenbio.com

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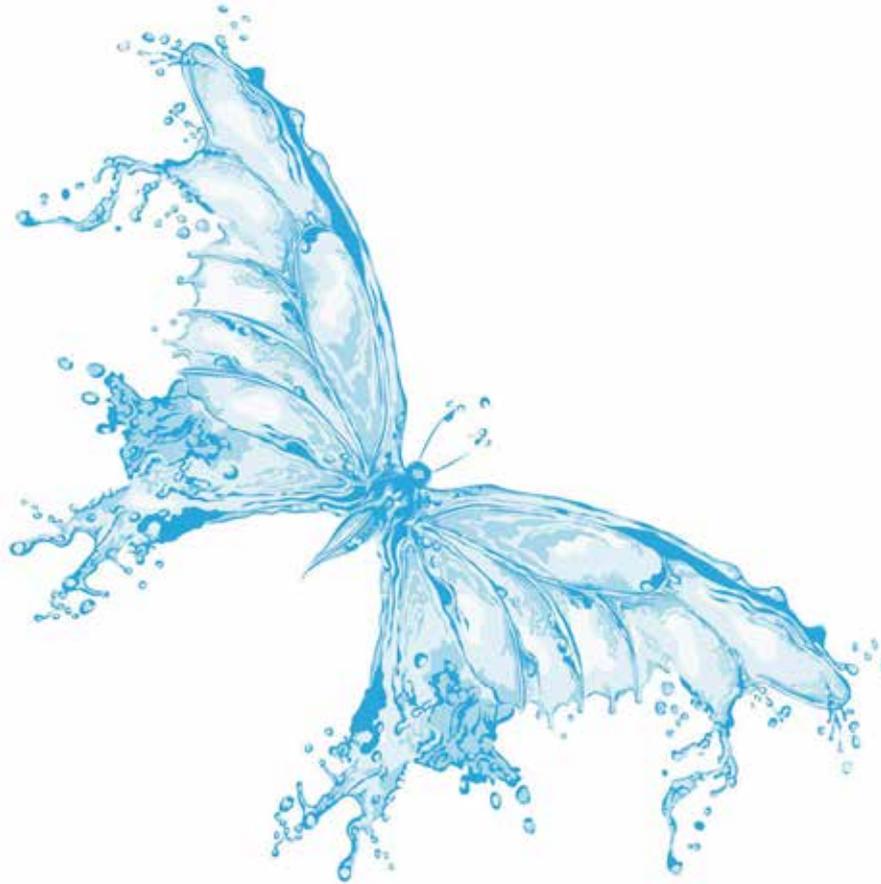
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 Top product (Satisfaction guarantee)

Certain uses of some of these products may violate existing or pending patent claims in a specific country. It is the user's responsibility to determine if the use of this product constitutes such a violation in the country where the recombinant antigen is going to be used. Rekom Biotech is not responsible for patent infringements or other violations that may occur by the use of this product in a specific country.

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