

# Antibodies

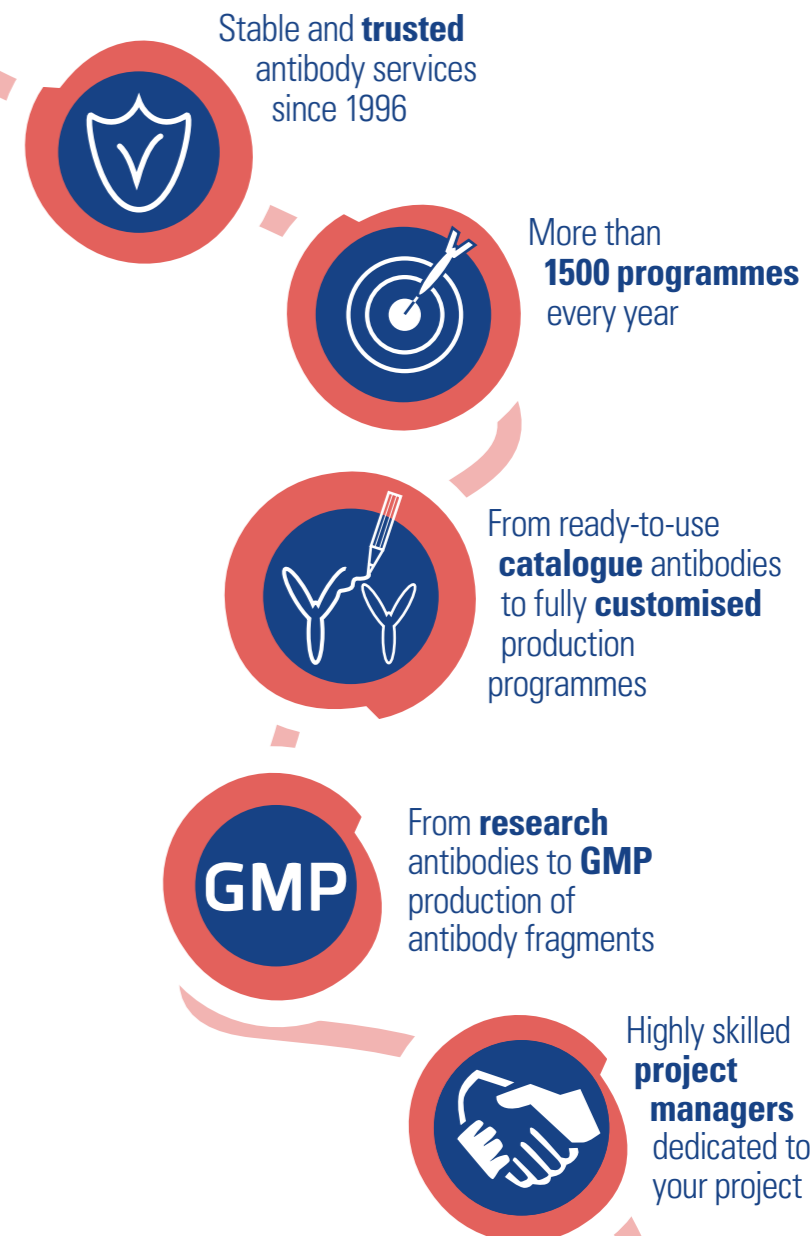
For Life Science Research

- > **Custom monoclonal** antibodies
- > **Custom polyclonal** antibodies
- > Custom Ab **fragments**
- > **Catalogue** antibodies



## IN CONSTANT INNOVATION

To follow the latest trends in the field of antibodies and to be at the forefront of technological innovation, we continuously improve our production facilities and services. This enables us to offer you the widest choice among cutting-edge antibodies and best programme options.



## Eurogentec Antibodies

### Custom

### Catalogue

Polyclonals

Monoclonals

Therapeutics

Additional services

Primary and secondary

➤ p7 Custom antibodies

➤ p8 Host selection

➤ p9 Polyclonal antibodies

➤ p14 Monoclonal antibodies

➤ p16 Therapeutics

➤ p19 Additional services

➤ p21 Catalogue antibodies

➤ p22 Primary

➤ p23 Secondary

➤ p23 Protein A Conjugates

## Annexes

➤ p24 Ab titer evolution

➤ p24 Bleed volumes

➤ p25 How to provide my antigen

➤ p26 How to order

➤ p26 Shipping fees

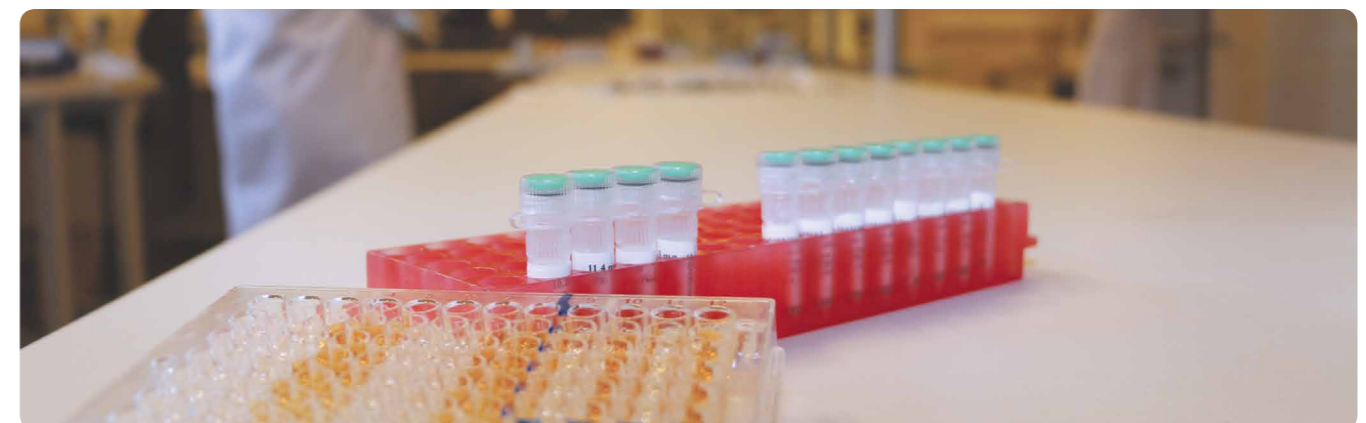
➤ p27 Animal welfare

➤ p27 Related products

➤ p27 License statements

## YOUR ANTIBODY SOLUTION PROVIDER

In addition to our high-quality catalogue antibodies, we offer the most flexible and comprehensive services for the production of custom antibodies. Taking advantage of our state-of-the-art expertise and technologies, we can design the antibody programme that best suits your research.



## Eurogentec Know-how

### Scientific advice and support

- Eurogentec has long been recognised for its quality support regarding catalogue antibodies. This first line support service is available by phone, e-mail or live chat at any stage of your project.
- For any custom programme our project managers will guide and support you all along your specific antibody development.

### Antigen

- Eurogentec's antibody team offers a high level expertise in the design and synthesis of immunogenic peptides as well as in the production of recombinant proteins or DNA.
- Pathogenic antigens are handled with the appropriate precautionary measures in the biosafety level 2 zone of Eurogentec's facilities.

### Immunisation

- Our proprietary Speedy 28-Day polyclonal programme reduces the immunisation time to 28 days. It uses a combination of non-Freund's adjuvants that stimulates the host's immune response and generates a high IgG/IgM ratio.

### Antibody

- Eurogentec has distributed ready-to-use catalogue Abs for many years. Based on this long-standing expertise, we now offer a new range of top-quality primary antibodies.
- Eurogentec is a pioneer in the *in vitro* production of monoclonal antibodies. Since 2004, we have continuously improved and optimised the culture conditions to get the most out of your hybridomas.
- Eurogentec uses the largest animal facility in EU allowing us to manage numerous, -small to very large- antibody projects.
- For therapeutics applications, we provide custom V<sub>H</sub>H and mAb fragments, which can be produced under ISO 13485 and GMP standards.



# ROADMAP TO YOUR ANTIBODY PROJECT

WHAT IS MY TARGET?

POPULAR

SPECIFIC

CATALOGUE Ab

CUSTOM Ab

Is there a catalogue Ab available?

NO

YES

Order Eurogentec catalogue Ab Online

The Ab perfectly suits my application

I test the Ab

I need more specific Ab

My Antigen is complex and I need to target a specific epitope

I need a host that is not mouse or rabbit\*

I need batch to batch reproducibility

I choose monoclonal Ab

I choose polyclonal Ab

Do I have my antigen (peptide, protein, cell extract, DNA...)?

YES

I send it to Eurogentec

NO

Eurogentec synthesises it for me

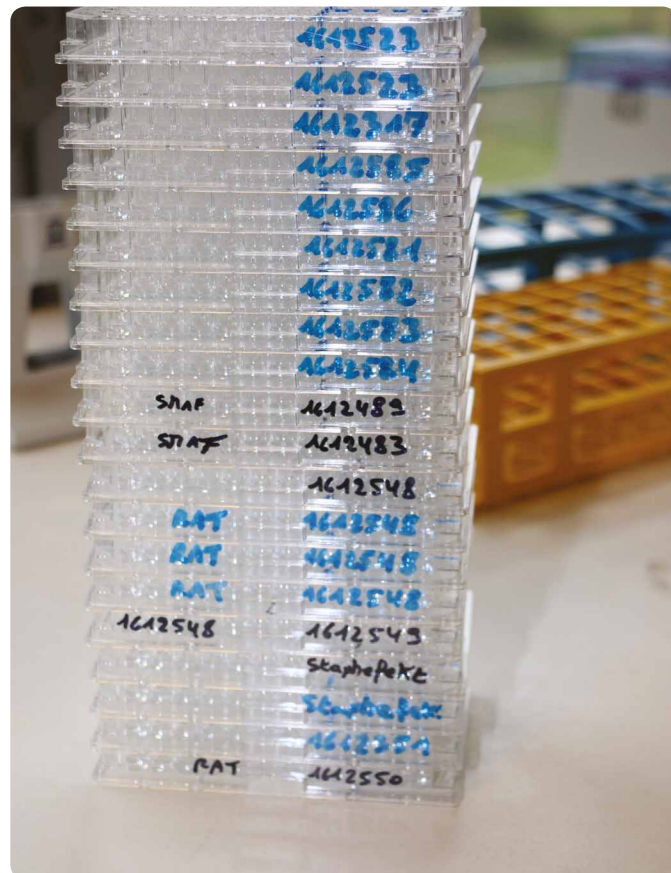
\* Both monoclonals and polyclonals can be raised in mice and rabbits (please note that hybridoma development in Rabbits is patent-protected).



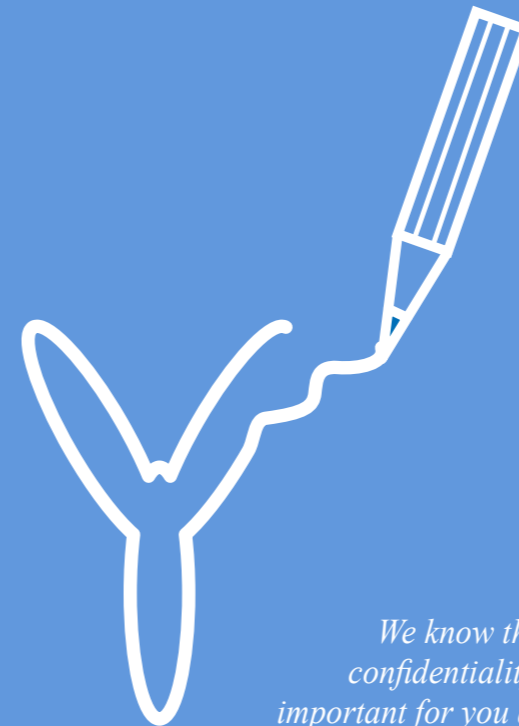
Discover our white paper!

## How to choose an antibody?

<http://bit.ly/white-paper-ab>



# Custom antibodies



Whether you are a research laboratory, a university centre or a pharmaceutical company, Eurogentec offers you a range of flexible antibody services tailored to your specific needs. Immunisation in diverse hosts can be performed with several antigens such as peptides, proteins, cell extracts or DNA. These antigens can be provided by you or produced by Eurogentec. We are experts in the generation of polyclonal (pAb) and monoclonal (mAb) antibodies for simple projects to large and high-demanding projects. We offer a continuum of production capabilities including manufacturing for therapeutic applications. We can produce your recombinant Ab fragment (including Fab, scFv and nanobody) in our FDA inspected GMP Biomanufacturing facility for use in human clinical trials. ■

*We know that confidentiality is important for you and we handle your data and projects with utmost care and respect. All hybridoma, sera and results obtained belong to the customer and will remain as a property of the customer\*. Eurogentec guarantees that it will not claim any rights on the hybridoma or the antibodies. If desired, a Non-disclosure Agreement concerning our production and the customer's purpose can be executed.*

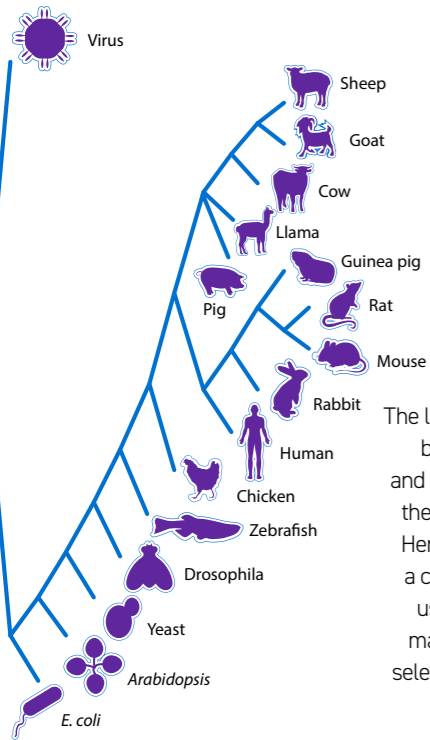


\*To be discussed in case of DNA immunisation

# THE BEST HOST FOR YOUR PROJECT

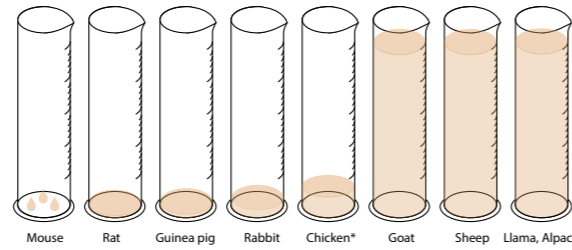
## KEY FACTORS

### Antigen homology



The lower the homology between the antigen and the host, the higher the immune response. Hence, the selection of a chicken host may be useful if a conserved mammalian protein is selected as the antigen.

### Ab quantity



- Avoid immunisation of several small animals in parallel
- Suitable for most of the projects
- Useful to compare immunogenicity of various antigens

\* In average, 8 to 10 egg yolks will be harvested per chicken immunisation (depending on the laying). 4 eggs contain as much antibody as the serum from one rabbit.

### Applications

#### Detection

If a secondary Ab is to be used in the final application, one may favour one host over another based on the availability of this secondary Ab.

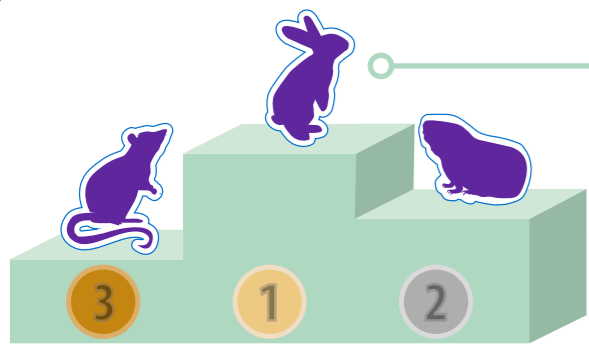


#### Therapeutics



We produce polyclonal and monoclonal Llama antibodies and collaborate with QVQ to provide V<sub>H</sub>H fragments. Their small size makes them of high value for therapeutics interest.

### Usage



Rabbit is the most widely used host for pAb production because of its easy maintenance and efficient immune system. Moreover, the quantity of serum collected is suitable for most of the projects.

Rats and guinea pigs are recommended for small quantities of high quality polyclonal antibodies at an affordable price.

### mAb

Mice are ideal for mAb production see p14

Rabbits mAbs are patent-protected; Eurogentec can assist you by immunising the animal, checking the immune response and isolating the B-cells from the spleen.



# Custom polyclonal antibodies

Eurogentec provides a wide range of efficient custom polyclonal programmes extending from classical to the fastest proprietary programme, Speedy 28-Day. You can also benefit from our expertise in the production of your antigen either peptides or proteins. ■

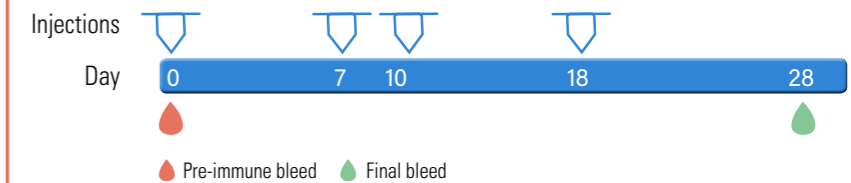
### ⇒ SPEEDY 28-DAY

Immunisation lasts 28 days

Recommended for

- > A strong and quick response
- > An anti-PTM programme
- > A quick access to a small quantity of purified and ready to use pAb (with the 'Speedy Mini' programme)

### IMMUNISATION SCHEDULE



All bleeds are sent to the customer

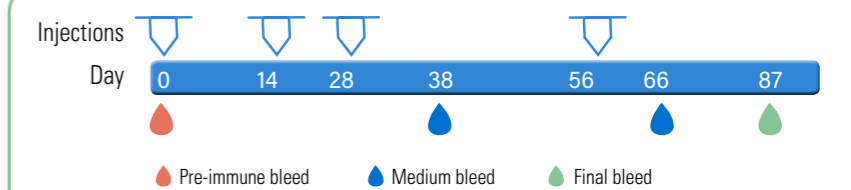
### ⇒ CLASSICAL

Immunisation lasts from 65 to 90 days depending on the host and the immune response.

Recommended for

- > Repeating a pre-existing protocol already conducted with a classical programme
- > Immunising a host where the Speedy 28-Day programme is not possible or not guaranteed (chicken, mouse, large animals,...)
- > An antigen of poor immunogenicity that may require prolongation of the programme

### IMMUNISATION SCHEDULE\*



\* This example is subject to variations (injections and intermediate bleeds) depending on the programme selected.

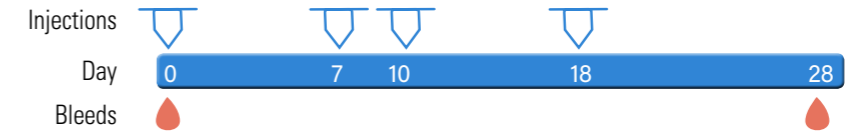
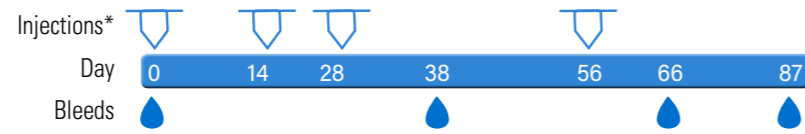
#### GOOD TO KNOW

\*\* Eurogentec offers recombinant protein production on request: [proteomics.services@eurogentec.com](mailto:proteomics.services@eurogentec.com)

Additional services including antibody coupling, labelling and additional purifications are available. See p.19 for more information ■

**HOW TO START**  
SEE PAGE 26

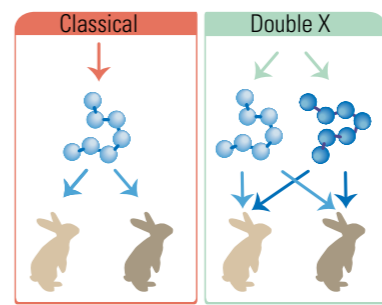
**INTERESTED IN**  
LARGE PROJECT SEE PAGE 27  
LLAMA IMMUNISATION SEE PAGE 17



		Classical programmes								Speedy 28-day programmes													
		Anti-antigen		Anti-peptide		Double X		Anti-PTM**		Anti-antigen		Speedy-Mini		Anti-peptide		Double X		Anti-PTM**					
		You provide the <b>antigen<sup>a</sup></b> (peptide, protein, complex sample)		Eurogentec designs and synthesises <b>one peptide</b>		Eurogentec designs and synthesises <b>two peptides</b> to increase the chances of success		Eurogentec designs and synthesises two peptides: one <b>modified</b> with the PTM and one unmodified		You provide the <b>antigen<sup>a</sup></b> (peptide, protein, complex sample)		Eurogentec designs and synthesises <b>one peptide</b>		"Eurogentec designs and synthesises <b>one peptide</b> "		Eurogentec designs and synthesises <b>two peptides</b> to increase the chances of success		"Eurogentec designs and synthesises two peptides: one <b>modified</b> with the PTM and one unmodified"					
Peptide	Length	X		10 - 16 aa	10 - 16 aa each	10 - 13 aa each	X		10 - 16 aa	10 - 16 aa	10 - 16 aa	10 - 16 aa each	10 - 13 aa each										
	Quantity	X		15-25 mg	15-25 mg each	15-20 mg each	X		8-10 mg	15-25 mg	15-25 mg each	15-20 mg each	15-20 mg each										
	Purity	X		> 70 %	> 70 %	> 70 %	X		> 70 %	> 70 %	> 70 %	> 70 %	> 70 %										
	Coupling to a carrier (KLH, BSA, OVA, THY or MAP carrier)	+		5 mg	5 mg each	5 mg of modified peptide	+		2-3 mg to KLH	5 mg	5 mg of each	5 mg of modified peptide	5 mg of modified peptide										
Immunisation	Host <sup>b</sup>	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#	Nbr	Cat#				
		Rabbit	2	AS-PNOR-3MORAB	2	AS-PCAP-RABBIT	2	AS-DOUB-LX	2	Phospho AS-PSPE-CIFIC	2	AS-SUPR-ANTIGEN	1	AS-SMAF-SINGLE	2	AS-SUPR-SINGLE	2	AS-SUPR-DX	2	Phospho AS-SUPR-PSPEC			
																					Acetyl Lys AS-SUPR-LYSACET		
																					Citruline AS-SUPR-CITSPEC		
																					Oxidized Cys AS-SUPR-OXCYS		
																						MonoMethyl Arg AS-SUPR-ARGME1	
																							DiMethyl Arg (sym) AS-SUPR-ARGME2SYM
																							DiMethyl Arg (asym) AS-SUPR-ARGME2ASY
																							MonoMethyl Lys AS-SUPR-LYSME1
																							DiMethyl Lys AS-SUPR-LYSME2
																					TriMethyl Lys AS-SUPR-LYSME3		
	Rat	2	AS-PNOR-3MORAT	2	AS-PCAP-RAT	2	AS-DOUB-LXRAT	6	Phospho AS-PSPE-CIFICRAT	2	AS-SUPR-RATANTIGEN	X		2	AS-SUPR-RATSINGLE	2	AS-SUPR-RATDX	6	on request				
	Guinea pig	2	AS-PNOR-3MOGPG	2	AS-PCAP-GUIPG	2	AS-DOUB-LXGUI	6	Phospho AS-PSPE-CIFICGP	2	AS-SUPR-GPANTIGEN	X		2	AS-SUPR-GPSINGLE	2	AS-SUPR-GPDX	6	Phospho AS-SUPR-PSPECGP				
	Goat	1	AS-PNOR-3MOGOAT	1	AS-PCAP-GOAT	1	AS-DOUB-LXGOAT	X		1	AS-SUPR-GOATAG	X		1	AS-SUPR-GOATSING	1	AS-SUPR-GOATDX	X					
	Mouse	3	on request	3	AS-PCAP-MOUSE	3	on request	X		X		X		X		X		X					
	Chicken	2	AS-PNOR-3MOHEN	2	AS-PCAP-HEN	2	AS-DOUB-LXHEN	2	Acetyl Lys AS-PTMA-LYSACETHEN	X		X		X		X		X					
	Large animal (pig, sheep, cow,...)	1	on request	1	on request	1	on request	X		X		X		X		X		X					
		More modification on request																		More modification on request			
ELISA		X		+		+		+		X		Specific response at 1/20000 guarantee <sup>c</sup> No Result, No Serum, No Invoice <sup>d</sup>		Specific response at 1/20000 guarantee <sup>c</sup> No Result, No Serum, No Invoice <sup>d</sup>		Specific response at 1/20000 guarantee <sup>c</sup> (at least for one of the 2 peptides) <sup>d</sup>		+					
Antibody Processing	Affinity Purification	+		+		+		Double purification of 50 mL serum		+		Purification of 10 mL Serum		+		+		Double purification of 50 mL serum					
	QC validation	+		+		+		ELISA and SDS-PAGE		+		ELISA		ELISA		ELISA		ELISA and SDS-PAGE					
	Delivery	Serum Purified antibody (Optional)		Serum Purified antibody (Optional) Remaining peptide		Serum Purified antibody (Optional) Remaining peptide		Purified antibody Remaining serum Remaining peptides		Serum Purified antibody (Optional)		Serum Purified antibody		Serum Purified antibody (Optional) Remaining peptide		Serum Purified antibody (Optional) Remaining peptides		Purified antibody Remaining serum Remaining peptides					

X = not applicable + = Optional  
 a. See the section "How to provide my antigen" on p.25 for more details  
 b. Other hosts are available on request  
 c. The guarantee only applies for peptides when approved by Eurogentec  
 d. The guarantee does not apply for Goat immunisation  
 \* This example is subject to variations (injections and intermediate bleeds) depending on the programme selected.  
 \*\*Post Translational Modification

**Double X programmes**

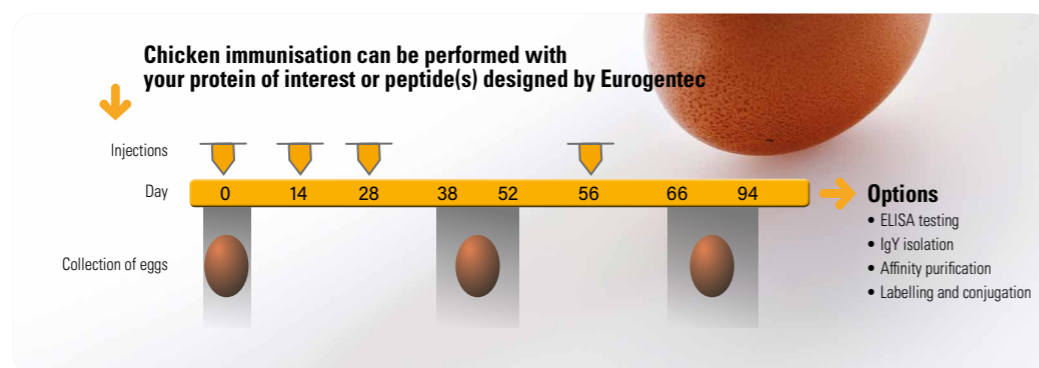


Double X programmes increase the chances of success by using two peptides corresponding to distinct regions of the targeted protein. Each host will receive a combination of the two peptides.



## Chicken immunisation

Using a non-mammalian host for immunisation allows considering **even highly conserved** mammalian proteins as targets. Moreover, hens produce antibodies in their eggs, avoiding the animal final bleed. ■



### Advantages of choosing a chicken immunisation programme

- Using chicken IgY often leads to **less background** in your application.
- It allows targeting **mammalian proteins** that are highly conserved among classical hosts.
- It produces **high quantity of IgY antibodies**: 4 eggs contain as much antibody as the serum from one rabbit (200 mg total IgY containing 2-10% antigen-specific IgY).
- You will receive 10 to 20 eggs yolks harvested within 90 days (one egg yolk pool by hen)\*
- We perform IgY purification from egg yolk.

## Post Translational Modifications

(PTMs)

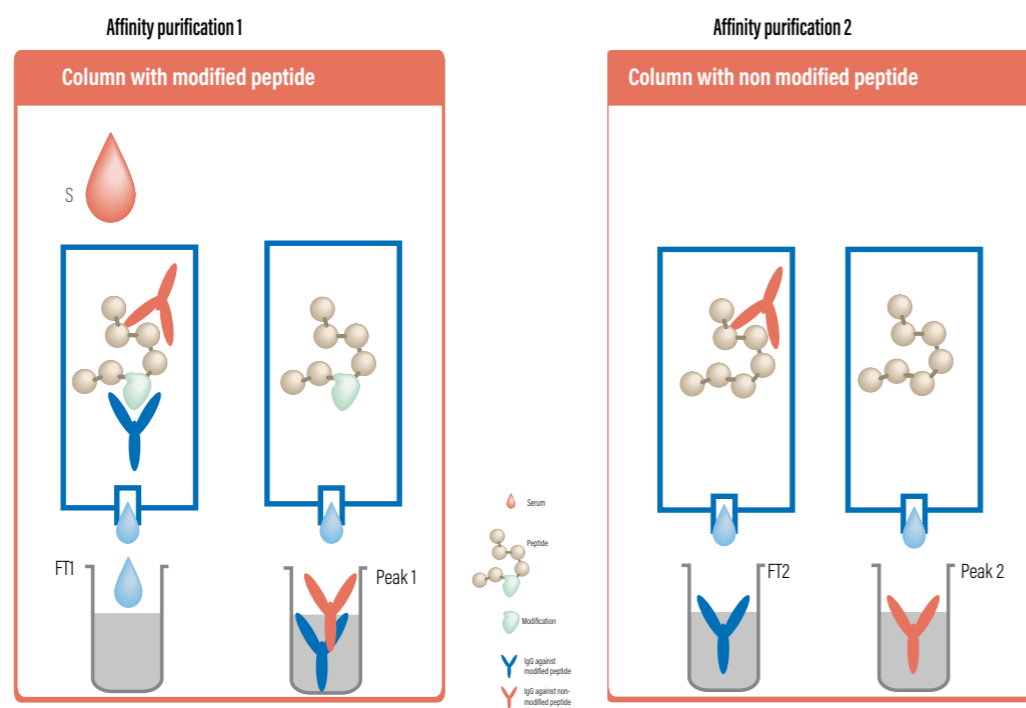
Thanks to our strong expertise in producing antibodies against PTMs, we can target classical modifications as well as more complex ones. The Speedy 28-Day programme is particularly adapted for the generation of antibodies against PTM due to the high frequency of the injections. ■

Phospho-  
Acetyl-  
DiAcetyl-  
MonoMethyl-  
DiMethyl-  
TriMethyl-  
Oxidised-  
Citruline-

And more on request

### BE AWARE OF

The purification of antibodies against PTM requires a double purification step. As a result, the titer of the antibody is reduced but its specificity against the modification is optimal. ■



### PTM programme step by step

- Design and synthesis of 2 peptides (1 non-PTM + 1 harbouring the PTM)
- Coupling of the PTM peptide to a carrier
- Immunisation of the hosts using the PTM peptide following the Speedy 28-day or a classical 87-day protocol
- Analysis of the immune response by ELISA and if applicable, selection of the best responding host
- **Double affinity purification of the pAb using the PTM and subsequently the non-PTM peptide (see figure above)**
- ELISA testing of the purified pAb against the non-PTM and PTM peptides
- Shipping

NOTE

\* In average, 8 to 10 egg yolks will be harvested per chicken immunisation (depending on the laying).



## Options for your polyclonal programme

### 1. Screening

#### Pre-immune sera testing

Screening the pre-immune serum can be performed on several animals to select the one with the lowest background in your application. For this purpose, you will receive 5, 10 or 20 pre-immune sera samples from different animals to allow you selecting the one(s) best suited for your application.

#### Immune response monitoring

ELISA is an excellent option to follow the evolution of an immune response during an immunisation.

**The ELISA tests** are carried out in one 96-well plate per animal.

We test in parallel, per ELISA, dilutions from:

- Pre-immune sera
- Small bleed
- Large bleed

#### Against

- The free peptide
- The carrier protein
- Positive and negative controls.

### 2. ELISA

Eurogentec Antibodies

Custom Catalogue

Polyclonals Monoclonals Therapeutics Additional services Primary and secondary

# Custom monoclonal antibodies



Eurogentec develops hybridomas in mouse and produces mg to g scale mAb exclusively *in vitro*. We offer cell banking facilities for a backup of your hybridomas whether you are a research laboratory or a pharmaceutical company. ■

### BENEFITS

- **Efficiency:** highly reproducible production of high quality mAbs
- **Flexibility:** a large and comprehensive panel of services
- **Attractivity:** a production batch using a normal hybridoma producer usually yields enough antibody material for an entire project!
- **Rapidity:** the production lasts only one month

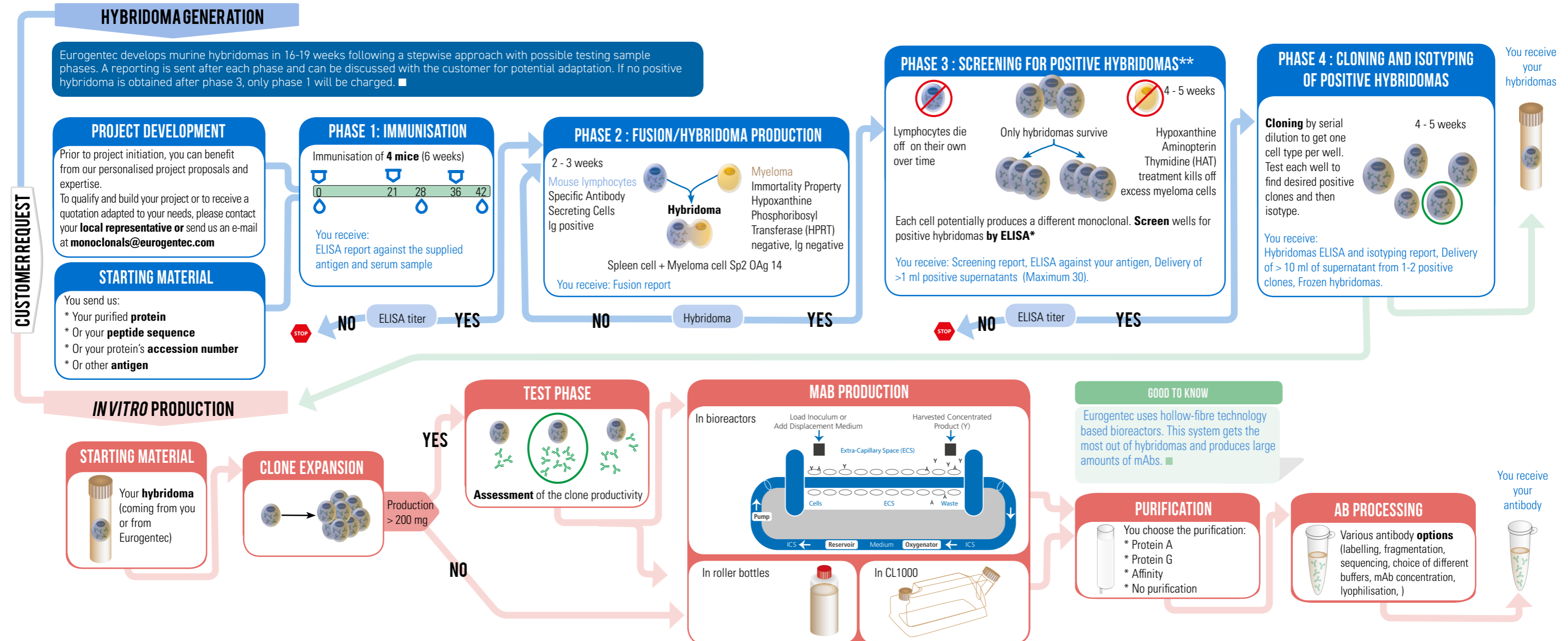
### In vitro production

The European legislation 2010-63-UE highly encourages producing mAbs *in vitro*, and more and more countries now prohibit the mAb production in ascites, a method associated with animal pain and distress. Prior to this recommendation, Eurogentec already switched to the *in vitro* production of mAbs and therefore developed a deep expertise as well as highly efficient production protocols. We perfectly control the production of mAbs from flasks to bioreactors (>1000L). ■

**HOW TO START**  
SEE PAGE 26

**Do you need rabbit monoclonals?**

Rabbits mAbs are patent-protected. Eurogentec can assist you by immunising the animals and checking the immune response, then removing the spleen and isolating the B-cells.



\* Due to the instability of hybridomas during the screening phase, the screening step (phase 3) is critical. By default, hybridomas are selected based on the culture optical density (OD). If you need any specific screening method, we invite you to discuss prior to phase 1 with our experts for the smooth progress of the project. The test phase will be adapted according to your screening method.

\*\* Hybridomas are considered as positive when they generate a positive signal in ELISA against the antigen, based on analysis criteria defined by Eurogentec.



# Therapeutics

For therapeutic uses, very pure and efficient molecules are required, while being small enough to be stable *in vivo*. Antibody fragments are good candidates for such therapeutic applications. For this purpose, we have developed proprietary plasmids to produce GMP antibody fragments. In parallel, we collaborate with QVQ. Together we immunise llamas and generate custom llama V<sub>H</sub>H. ■



## Camelid antibodies and monoclonal V<sub>H</sub>H production

Camelids produce single-chain antibodies in addition to conventional ones. The antigen binding domains of these antibodies, called V<sub>H</sub>H, are the smallest naturally occurring antibody fragments that recognise the antigens. In collaboration with QVQ, we accompany you from llama immunisation to V<sub>H</sub>H production including lymphocyte isolation and mRNA extraction. Eurogentec can label your V<sub>H</sub>H fragments on request. ■



### BENEFITS

**Better targeting**  
Due to their small size (~ 15 kDa), V<sub>H</sub>H can also bind epitopes that are hidden, hence targeting precision is higher compared to normal antibodies.

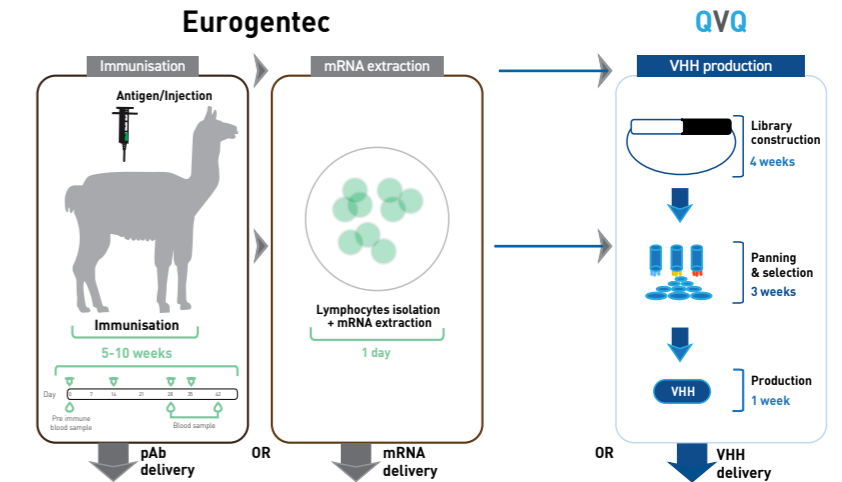
**Easier production**  
The small size of V<sub>H</sub>H makes them relatively easy to produce in lower eukaryotes up to very high amounts and purities.

**Unique properties**  
V<sub>H</sub>H have a high tissue penetration and are cleared from circulation rapidly. Some V<sub>H</sub>H can even cross the blood-brain barrier.

**Higher stability**  
V<sub>H</sub>H are stable under extreme pH, temperature and against proteases; hence, they keep their native folding and epitope binding capacity under very diverse experimental conditions.

At Eurogentec, we generate llama polyclonal antibodies targeting multiple antigens, and offer a wide range of additional services.

At QVQ, we generate V<sub>H</sub>H phage display libraries and perform selection and screening of high affinity monoclonal V<sub>H</sub>H.



### Immunisation

- > Host: Llama or Alpaca
- > Programme: customer dependent; 5 to 10 weeks
- > Antigen: from the customer or produced at Eurogentec. Protein amount required per immunisation: 0.5 mg/llama [2 llamas are scheduled for immunisation]
- > Standard immunisation schedule: Pre-immune bleed (day 0): 4 injections (day 0, 14, 28 and 35), 2 bleeds (day 28 and 42).
- > Optional: Testing of immune response. ELISA testing against the antigen is generally performed. This step may require an additional amount of antigen.

**> Deliverables:** the programme can be stopped here and you receive pAb (crude serum or purified pAb).

### RNA extraction

The lymphocytes can be isolated from a blood sample (+/- 250mL) followed by RNA extraction. Please note that lymphocytes isolation and RNA extraction must be performed very rapidly after the blood sampling to avoid RNA degradation. RNA is checked for quality prior to sending.

**> Deliverables:** the programme can be stopped here and you receive RNA.

### Monoclonal V<sub>H</sub>H selection

The service of V<sub>H</sub>H generation includes one or several of the following steps:

> Library construction

> Deliverables: two libraries with size >10<sup>7</sup> different clones and >90% insert.

> Selection and screening for high affinity V<sub>H</sub>H clones + sequence determination.

> Deliverables: the sequences of at least 6 binders from 2 families.

> Production, V<sub>H</sub>H single domain antibody production and purification.

> Deliverables: 0.5 mg protein of the lead clones produced in *E. coli* and purified (>90%).

### ADDITIONAL SERVICES

1. Large scale production in yeast for animal experiments or crystallography up to GMP production for microdosing studies in human.
2. Optimisation of V<sub>H</sub>H sequence for production, physical and "in product" stability and various types of clinical use.
3. Formatting of the V<sub>H</sub>H in bivalent, bispecific or custom made formats.
4. V<sub>H</sub>H can be custom labelled.

## ANTIBODY FRAGMENTS

### mAb fragments

Eurogentec has renowned expertise in the capacity to produce large amounts of recombinant proteins including Ab fragments in patent free strains of *Pichia pastoris*. Multicopy clones are isolated using Eurogentec's proprietary plasmids (high yield). To start producing your antibody fragments, you have to provide the sequence of your choice.

All antibody fragments can be produced:

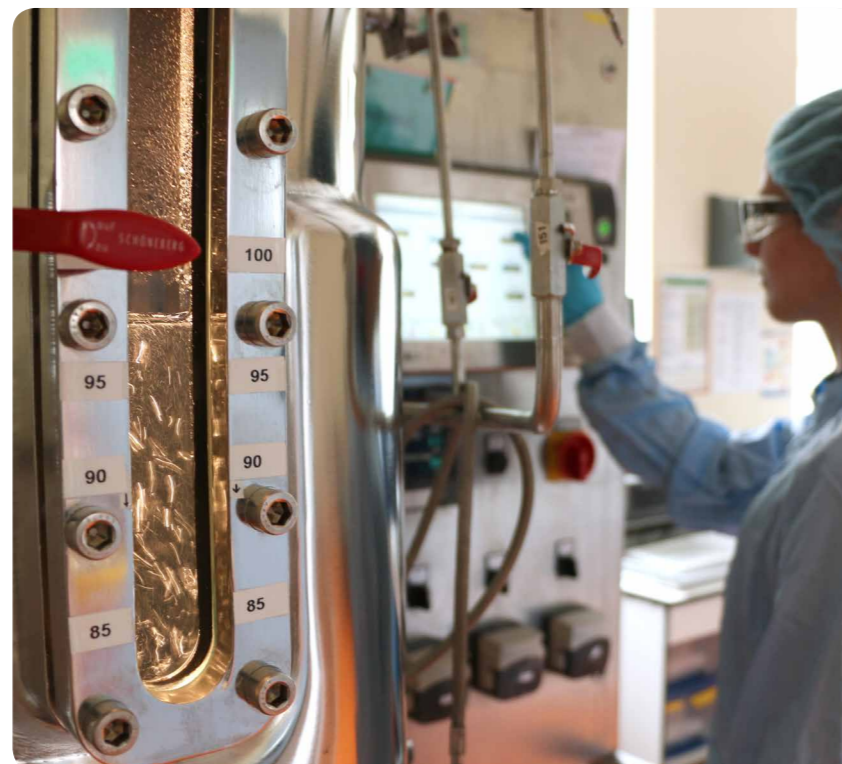
- Fabs
- Nanobodies
- scFv
- And more

### CONTACT

[info.biologics@eurogentec.com](mailto:info.biologics@eurogentec.com)

### GOOD TO KNOW

Eurogentec is an expert in protein production in various strains. If you dispose of a specific strain expressing your Ab fragment, contact us for a feasibility study. Since 1996, we have established trusted collaborations with many Big Pharma's and biotechnology companies around the world to develop and produce **clinical trial materials**. ■



# Anti-llama secondary antibodies

Camelids produce 3 types of Immunoglobulins G (IgGs). Only sub-classes IgG2 and IgG3 are single chain antibodies.

To facilitate the detection and the isolation of single chain Ab (IgG 2/3) from IgG1, Eurogentec offers anti-llama secondary antibodies labeled with biotin, R-PE or unlabeled. We also offer custom labeling on request.

VHHs can be detected using a rabbit anti-VHH polyclonal Ab which is broad VHH-specific, as it binds to and allows for the detection of VHHs from different germline sequence families. Custom labeling is available on request.

Product name	Size	Ref.
Mouse anti-llama IgG1, mAb (Clone 27.7)	0.1 mg (0.5 mg/ml)	EG-10001-100
Mouse anti-llama IgG1, mAb Biotin-labeled (Clone 27.7)	0.1 mg (0.5 mg/ml)	EG-10001-BIOT
Mouse anti-llama IgG1, mAb R-PE-labeled (Clone 27.7)	0.05 mg (0.5 mg/ml)	EG-10001-RPE
Mouse anti-llama IgG2/3, mAb (Clone 17.11)	0.1 mg (0.5 mg/ml)	EG-10002-100
Mouse anti-llama IgG2/3, mAb Biotin-labeled (Clone 17.11)	0.1 mg (0.5 mg/ml)	EG-10002-BIOT
Mouse anti-llama IgG2/3, mAb R-PE-labeled (Clone 17.11)	0.05 mg (0.5 mg/ml)	EG-10002-RPE
Rabbit anti-llama VHH pAb	25 µg (1 mg/mL)	EG-VHH001-0025
Rabbit anti-llama VHH pAb	100 µg (1 mg/mL)	EG-VHH001-0100
Rabbit anti-llama VHH pAb	250 µg (1 mg/mL)	EG-VHH001-0250
Rabbit anti-llama VHH, pAb, HiLyte™ Fluor 488 labeled	0,1 mg (0,5 mg/ml)	EG-VHH001-HF488



# Additional Services

## ELISA testing

Eurogentec can assay your antibody in various applications including ELISA and western-blot. ■



## Purification

We can perform purification of total IgG (IgY in chicken) or affinity purification using the antigen. ■



## Labelling

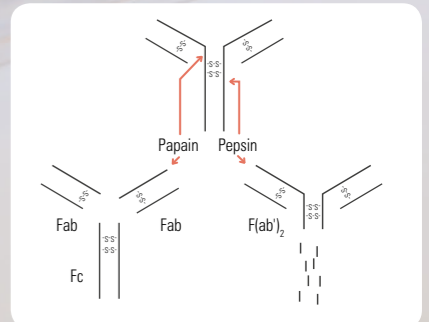
To avoid using a labelled secondary antibody, your specific primary antibody can be labelled with the molecule of your choice. We offer a large panel of dyes and labels (refer to our Protein iDentification brochure).

- **Fluorophores** are ideal for flow cytometry and fluorescent microscopy. They include AnaSpec's proprietary high-quality fluorophores HiLyte™ Fluor and CyLyte Fluor.
- **Alkaline phosphatase (AP)** allows the detection of an antibody with colorimetric substrates.
- **Horse Radish Peroxydase (HRP)** is detectable by colorimetry and by chemiluminescence that offers a better sensitivity than colorimetry.
- **Biotin** reacts extremely specifically with Streptavidin substrates. ■

## Fragmentation

It has been shown that many cells have receptors for the Fc fragment of antibodies leading to unspecific background. To avoid such a background signal, Eurogentec selectively cleaves your antibodies into fragments and provides you with Fab or F(ab')<sub>2</sub>. ■

Please note that chicken IgY do not bind to the Fc receptors expressed on the surface of mammalian cells, hence generating less background (see p.12)



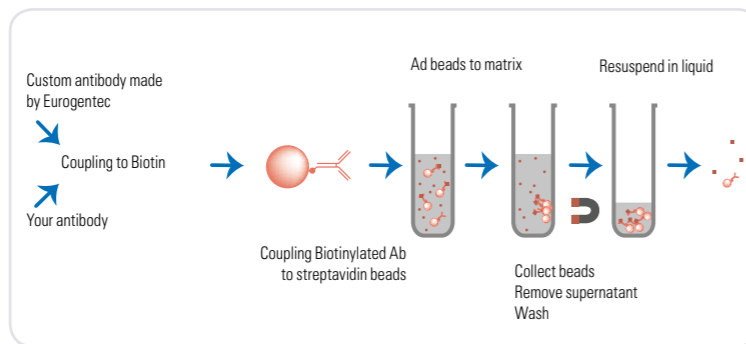
## ALSO AVAILABLE

- Secondary antibodies
- Protein A coupled to fluorescent dyes and biotin, see p. 23 ■



## Coupling to magnetic beads

Eurogentec has joined forces with a state of the art beads manufacturer to couple your antibody to magnetic beads. To ensure the success and convenience of your experiments, we selected the best beads regarding size distribution, magnetic content consistency, binding surface, sedimentation property, easiness of protein handling and size. ■



### APPLICATIONS

- Preparative purification
- Bead-based ELISA
- SDS PAGE analysis
- Immunoprecipitation
- Protein Pull-down

## Epitope mapping

To determine the protein epitope specifically recognised by an mAb, Eurogentec can design and synthesise a peptide library which spans the sequence of the target protein, and screen this library in a 96-well format to identify the peptide region which harbours the mAb epitope. ■

### A. Peptide design

- KNCSHIQPWETDCLSLPERQDEYDPKGPK...
- P1. KNCSHIQPWETDC  
P2. QPWETDCLSLPE  
P3. CLSCLPERQDEYD  
P4. ERQDEYDPKGPK

#### OPTION

Synthesised peptides ( $\geq 10$  aa) can be biotinylated to assure better and oriented fixation onto the support.

#### You provide

- The protein sequence
- The desired peptide length (13 mer peptide are suggested)
- The desired overlap (7 aa overlaps are suggested)

#### You receive

- Assistance with the peptide design
- The synthesised peptides (96 well formats), biotinylated on request

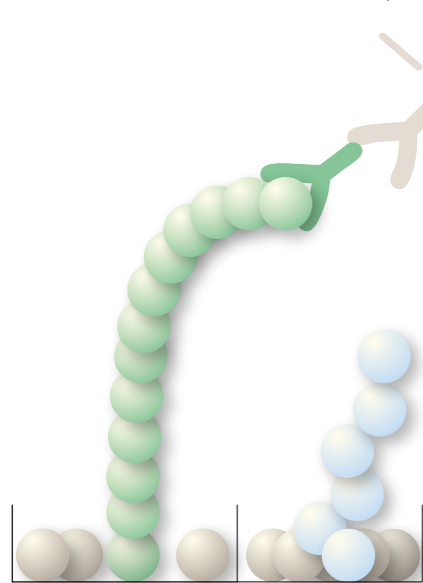
### B. Library screening and epitope characterisation

#### You provide

- The Primary Antibody (purified; 1 mg/mL in PBS shipped on dry ice)
- A positive control (optional)
- Information about the species in which the primary Ab was raised

#### You receive

- ELISA Analysis Report
- The sequence of the Ab binding site(s)



1. Plate Coating
2. Screening for the Primary Antibody epitope
3. Detection using a labelled Secondary Antibody

One plate is coated with 24 different designed peptides in triplicate\*

Addition of your Primary Antibody (dilution 1:1000)

Labelled secondary antibody:

- Anti-rabbit
- Anti-rat
- Anti-mouse
- Anti-guinea pig
- Anti-chicken
- Anti-human or other on request

#### 4. Epitope characterisation by ELISA

Selected positive peptides (triplicate) are incubated with various antibody dilutions (1:1000, 1:3000 and 1:9000)

\*OPTION  
Streptavidin precoated plate may be used to capture biotinylated peptides.



# Catalogue antibodies

Eurogentec has always been a major European distributor of high quality catalogue antibodies recognised for its responsible and high level technical support. Based on this strong experience, Eurogentec launched *OptimAb*<sup>™</sup> antibodies, its own range of catalogue antibodies fulfilling the same quality standards. ■

## FEATURES

- Top quality antibodies
- Clones with highest reputation
- Key protein targets
- Skilled technical support





## PRIMARY

### CHOOSE AMONG OUR FIRST-CLASS Abs

Eurogentec focuses its range of catalogue primary antibodies only on the best ones to offer you the guarantee of high quality and full satisfaction.

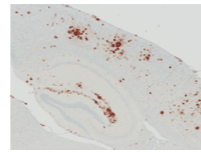
VISIT OUR WEBSITE

Our range is continuously evolving  
[http://www.eurogentec.com/  
optimab-catalog-antibodies.html](http://www.eurogentec.com/optimab-catalog-antibodies.html)

#### Best sellers

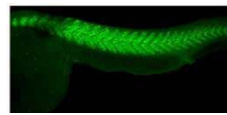
- 5-Methylcytosine (original clone 33D3)
- Actin, -smooth muscle cell specific
- $\beta$ -Amyloid 1-42 (clone MM26-2.1.3)
- Tau (phosphorylated and controls)
- His-Tag and GST Tag
- Zebrafish specific targets

5-Methylcytosine is a key regulator of gene transcription; it is closely associated to cancer as promoters of specific tumor suppressor genes are found hypermethylated; clone 33D3 is the most used and published mAb used to target 5-methylcytosine in multiple applications.



$\beta$ -Amyloid 1-42 is a hallmark of Alzheimer's diseases, as it aggregates in the brain of diseased patients;

clone MM26-2.1.3 do not cross-react with shorter amyloid fragments



Mef2A is highly studied in differentiation models such as the zebrafish as it mediates cellular functions in skeletal and cardiac muscle development, but is also involved in neuronal differentiation and survival

## SECONDARY

### CHOOSE AMONG OUR EFFICIENT SECONDARY Abs

#### Species

Anti-Mouse  
Anti-Rabbit  
Anti-Goat  
Anti-Llama VHH  
Anti-Llama IgG

#### Labelled with

AMCA  
Biotin  
FITC  
HiLyte™ Fluor  
HRP  
TAMRA  
Europium  
RP-E

#### Typical applications

Enzymatic assay  
ELISA  
Flow cytometry  
Fluorescent microscopy  
IHC  
Protein array  
Western Blotting  
TR-FRET



CHECK OUT OUR WEBSITE FOR A COMPLETE LISTING

Cat #	Highlight on key Best sellers	Size	Cat #	Anti-tag Abs	Size
BI-MECY-0100	Anti-5-Methylcytosine, mouse mAb clone 33D3	100 µg	AS-29779	Anti-GFP Tag, rabbit pAb	100 µg
BI-MECY-0500	Anti-5-Methylcytosine, mouse mAb clone 33D3	500 µg	AS-29531-AMCA	Anti-GST Tag, mouse mAb / AMCA	100 µg
BI-MECY-1000	Anti-5-Methylcytosine, mouse mAb clone 33D3	1000 µg	AS-29531-BIOT	Anti-GST Tag, mouse mAb / Biotin	100 µg
AS-29553	Anti-Actin, a smooth muscle (h,m), rabbit pAb non labeled	50 µg	AS-29531-FITC	Anti-GST Tag, mouse mAb / FITC	100 µg
AS-29553-AMCA	Anti-Actin, a smooth muscle (h,m), rabbit pAb AMCA	50 µg	AS-29531-H488	Anti-GST Tag, mouse mAb / HiLyte™ Fluor 488	100 µg
AS-29553-BIOT	Anti-Actin, a smooth muscle (h,m), rabbit pAb Biotin	50 µg	AS-29531-H555	Anti-GST Tag, mouse mAb / HiLyte™ Fluor 555	100 µg
AS-29553-FITC	Anti-Actin, a smooth muscle (h,m), rabbit pAb FITC	50 µg	AS-29531-H647	Anti-GST Tag, mouse mAb / HiLyte™ Fluor 647	100 µg
AS-29553-H488	Anti-Actin, a smooth muscle (h,m), rabbit pAb HiLyte™ Fluor 488	50 µg	AS-29531-TAMR	Anti-GST Tag, mouse mAb / TAMRA	100 µg
AS-29553-H555	Anti-Actin, a smooth muscle (h,m), rabbit pAb HiLyte™ Fluor 555	50 µg	AS-72250	Anti-GST Tag, mouse mAb / Europium	50 µg
AS-29553-H647	Anti-Actin, a smooth muscle (h,m), rabbit pAb HiLyte™ Fluor 647	50 µg	AS-61250	Anti-His Tag, mouse mAb / non labeled	50 µg
AS-29553-TAMR	Anti-Actin, a smooth muscle (h,m), rabbit pAb TAMRA	50 µg	AS-61250-AMCA	Anti-His Tag, mouse mAb / AMCA	100 µg
AS-29588	Anti-CD3-epsilon (h), rabbit pAb	50 µg	AS-61250-BIOT	Anti-His Tag, mouse mAb / Biotin	100 µg
AS-55043A	Anti-mouse P2Y12, rabbit pAb	50 µg	AS-72251	Anti-His Tag, mouse mAb / Europium	50 µg
AS-54819	Anti-CD45R (m), rat mAb clone RA3-6B2	50 µg	AS-61250-FITC	Anti-His Tag, mouse mAb / FITC	100 µg
AS-54487	Anti-Nephrin CT (h,m,r), rabbit pAb	50 µg	AS-61250-H488	Anti-His Tag, mouse mAb / HiLyte™ Fluor 488	100 µg
AS-28139	Anti-SOX9 Ser181 (h,m), rabbit pAb	50 µg	AS-61250-H555	Anti-His Tag, mouse mAb / HiLyte™ Fluor 555	100 µg
AS-29577	Anti-MMP-7/Matrilysin, CT (h,m), rabbit pAb - 50µg	50 µg	AS-61250-H647	Anti-His Tag, mouse mAb / HiLyte™ Fluor 647	100 µg
AS-55921	Anti- $\beta$ -Amyloid (1-40) (h,m,r), mouse mAb clone MM32-13.1.1	50 µg	AS-61250-TAMR	Anti-His Tag, mouse mAb / TAMRA	100 µg
AS-55922	Anti- $\beta$ -Amyloid (1-42) (h,m,r), mouse mAb clone MM26-2.1.3	50 µg			
AS-56074	Anti- $\beta$ -Amyloid (1-6) (monomers, oligomers, fibrils), rabbit pAb	50 µg	<b>Cat #</b>	<b>Zebrafish-specific Abs</b>	<b>Size</b>
AS-56075	Anti- $\beta$ -Amyloid (17-23) (oligomers, fibrils), rabbit pAb	50 µg	AS-55811	Anti-MBP (IN), Z-Fish™, rabbit pAb	250 µl
AS-56076	Anti- $\beta$ -Amyloid (23-29) (monomers), rabbit pAb	50 µg	AS-55818	Anti-Nes (CT), Z-Fish™, rabbit pAb	250 µl
AS-55914	Anti-MOG (h,m,r), mouse mAb clone B1A	250 µl	AS-55339	Anti-Actin-beta (CT), Z-Fish™, rabbit pAb	250 µl
AS-55329	Anti- $\beta$ -Synuclein (pSer 87) (h), rabbit pAb	50 µg	AS-55609	Anti-Mef2-pan (IN), Z-Fish™, rabbit pAb	250 µl
AS-54960	Anti-Tau pThr181 (h), rabbit pAb	50 µg	AS-55533	Anti-NeuroD (CT), Z-Fish™, rabbit pAb	250 µl
AS-54963	Anti-Tau pSer199/202 (h), rabbit pAb	50 µg	AS-55421	Anti-PCNA (IN), Z-Fish™, rabbit pAb	250 µl
AS-28017	Anti-Tau pSer202 (h,m), rabbit pAb	50 µg	AS-55877	Anti-Vegf-c (IN), Z-Fish™, rabbit pAb	250 µl
AS-54965	Anti-Tau 198,199,202,205 (h,m), rabbit pAb	50 µg	AS-55383	Anti-TNF-a (IN), Z-Fish™, rabbit pAb	250 µl
AS-54969	Anti-Tau 212,214,217 (h,m), rabbit pAb	50 µg	AS-55345	Anti-MMP-9 (hinge), Z-Fish™, rabbit pAb	250 µl
AS-54968	Anti-Tau pThr217 (h), rabbit pAb	50 µg	AS-55715	Anti-Cdh-5 (IN), Z-Fish™, rabbit pAb	250 µl
AS-55313	Anti-Tau pThr231 (h), rabbit pAb	50 µg	AS-55600	Anti-ItgA-2b (IN), Z-Fish™, rabbit pAb	250 µl
AS-54974	Anti-Tau Ser262 (h,m), rabbit pAb	50 µg	AS-55712	Anti-CD4 (NT), Z-Fish™, rabbit pAb	250 µl
AS-54973	Anti-Tau pSer262 (h), rabbit pAb	50 µg	AS-55713	Anti-CD8-a (CT), Z-Fish™, rabbit pAb	250 µl
AS-56077	Anti-Tau Acetyl Lys280 (h,m,r,b,mk), rabbit pAb	50 µg	AS-55917	Anti-MPEG-1 (CT), Z-Fish™, rabbit pAb	250 µl
AS-56078	Anti-Tau Lys280 (h,m,r,b,mk), rabbit pAb	50 µg	AS-55603	Anti-Mpx (NT), Z-Fish™, rabbit pAb	250 µl
AS-54977	Anti-Tau pSer396 (h), rabbit pAb	50 µg	AS-55633	Anti-Lysozyme (IN), Z-Fish™, rabbit pAb	250 µl
AS-54978	Anti-Tau pSer400 (h), rabbit pAb	50 µg			
AS-55945	Anti-Tau GlcNAc Ser400 (h,m,r,mk), rabbit pAb	50 µg			
AS-55416	Anti-Tau 409,412,413 (h), rabbit pAb	50 µg			

Ms= mouse Rb= rabbit

## PROTEIN A-CONJUGATES

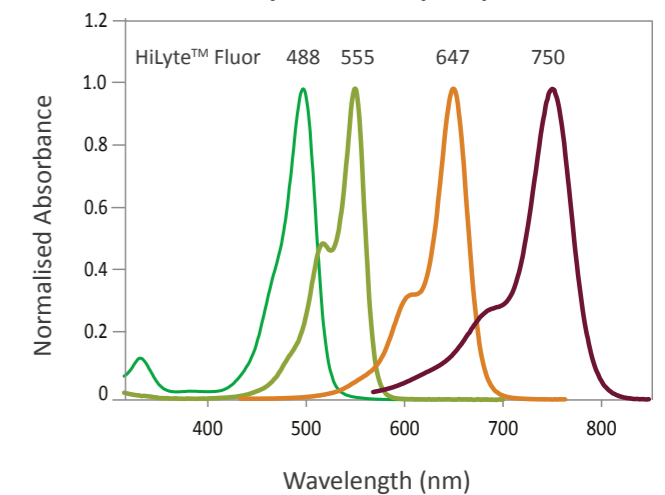
Eurogentec has developed an excellent alternative to dye labelled secondary antibodies based on the ability of Protein A to bind the FC region of most IgGs (for affinity information see p.24 ) This range of universal detection reagents allows the detection via streptavidin labels, or provides a super bright signal thanks to the HiLyte™ fluorophores conjugated to the Protein A.

### BENEFITS

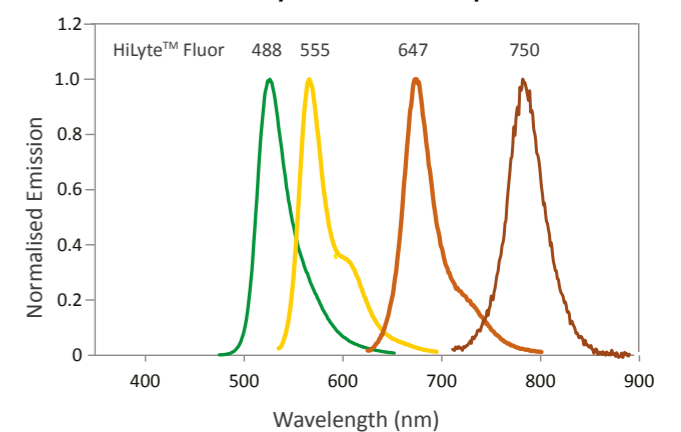
Super bright signal of the HiLyte™ Fluor  
Suitable for multiple detection applications  
One reagent to detect multiple targets  
Large panel of emission wavelengths

Product Name	Ex/Em (nm/nm)	Quantity	Catalog#
Protein A-HiLyte™ Fluor 488 Conjugate	499/523	1mg	AS-72235
Protein A-HiLyte™ Fluor 555 Conjugate	553/568	1mg	AS-72236
Protein A-HiLyte™ Fluor 647 Conjugate	649/674	1mg	AS-72237
Protein A-HiLyte™ Fluor 750 Conjugate	754/778	1 mg	AS-72239
Protein A-Biotin		5 mg	AS-72234

HiLyte™ Fluor absorption spectra

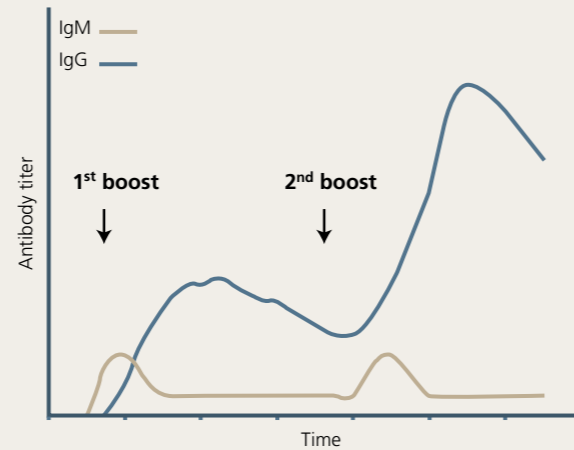


HiLyte™ Fluor emission spectra



## HOW TO UNDERSTAND Ab TITER EVOLUTION

IgMs are more difficult to label and detect than IgGs because of their pentameric structure. To obtain the optimal (highest) IgG/IgM ratio, Eurogentec's immunisation programmes are optimised concerning the number and frequency of the boosts. Special attention was paid to this ratio when developing the Speedy 28-day programme, to ensure a minimal amount of IgMs in the final bleed. IgM and IgG antibody titer as a function of time may be represented in the general scheme beside.



## DISCOVER BLEED VOLUME

The immune response depends on the antigen but also on the host. Large animals provide the advantage of allowing larger bleeds but their immune response is generally lower than small animals. The following table indicates the expected bleed volume in various hosts.

Bleed volumes					
	Pre-immune	Small bleed	Large bleed	Final bleed	Comment
Mouse	40-70 µL	40-70 µL	40-70 µL	300-500 µL	Good to test antigenicity
Guinea pig	1 mL	1 mL	2-3 mL	10-15 mL	For small serum volumes
Rat	2 mL	2 mL	2 mL	5 mL	For small serum volumes
Chicken	1 egg	± 8-10 eggs*	± 8-10 eggs*	± 8-10 eggs*	For mammalian antigens and large quantities of Antibodies, 4 eggs = 1 rabbit final bleed
Rabbit	2 mL	2 mL	20-25 mL	50-70 mL	For most applications
Goat	2 mL	2 mL	250 mL	1000 mL	For large batch volumes
Sheep	2 mL	2 mL	250 mL	1000 mL	For large batch volumes
Llama	2 mL	2 mL	250 mL	1000 mL	Single chain antibodies and for large batch volumes

Typical bleed volumes in the most common hosts

\* On average, depending on the laying

## PROTEIN A AND G AFFINITY

Depending on the host, protein A and G do not have the same affinity for immunoglobulins. The following table gives an overview of the relative affinities of IgG (and IgY) from different species for protein A and protein G.

Origin of Immunoglobulins	Protein A	Protein G
Mouse	+++	++++
Rat	-	+++
Guinea pig	++++	++
Rabbit	++++	+++
Goat	+/-	++
Sheep	-	++
Pig	+++	+++
Chicken (IgY)	-	-

Binding capacities of immunoglobulins from different species to protein A and G

## HOW TO PROVIDE MY ANTIGEN

### Ship your antigen to Eurogentec

Antigens should be shipped along with a copy of the order form. Should you be shipping additional antigen for an on-going programme please indicate on the accompanying copy of the order form the antibody programme number that your antigen should be used for.

### Shipping address:

EUROGENTEC  
Immunisation Department,  
LIEGE Science Park,  
Rue du Bois Saint-Jean 5,  
4102 SERAING, Belgium

### ANTIGEN AMOUNT

Injection amounts per rabbits depend on the antigen weight:  
100 µg per injection for < 18 - 20 kDa proteins\*;  
200 µg per injection for > 18 - 20 kDa proteins.

Injection amounts for other hosts are listed in the table beside.

Host	Min. antigen quantity / injection	
	Antigen MW < 18 kDa	Antigen MW > 18 kDa
Mouse	40 µg	15 µg
Guinea pig	50 µg	30 µg
Rat	50 µg	30 µg
Chicken	200 µg	100 µg
Rabbit	200 µg	100 µg
Goat	400 µg	200 µg
Sheep	400 µg	200 µg
Llama	400 µg	200 µg
Other	Contact us for recommendations	

Typical antigen amounts required for immunisation in the most common hosts.

### AUTHORISED BUFFER COMPONENTS

Compound or formulations	Allowed	Not allowed
	Water	Yes, keep the volume small (1 ml)
PBS	Yes, keep the volume small (1 ml)	-
Physiological buffer solutions	Yes, keep the volume small (1 ml)	-
Metal dyes/heavy metals	-	Risk of toxicity
Salts (KCl, NaCl, MgCl2)	< 1.0 M	> 1.0 M
SDS	< 2.0 %	> 2.0 %
Urea	< 6.0 M	> 8.0 M
Guanidinium HCl	-	Risk of toxicity
Digoxin/Digoxigenin	-	Risk of toxicity
Octylglucoside	< 1.0 %	> 1.0 %
Triton X-100/Tween-20	< 0.2 %	> 0.2 %
Glycerol	< 20 %	> 20 %
PMSF	-	Risk of toxicity
Pefabloc	< 0.1 mM	> 0.1 mM
Leupeptin/Pepstatin	< 1 µM	> 1 µM
DTT	< 3 M	> 3 M
Mercaptoethanol	-	Risk of toxicity
Imidazole	< 3 M	> 3 M
TFA	-	High risk of toxicity

Compounds and formulations that are acceptable for immunisation

### ANTIGEN FORMAT

#### Lyophilised

You can send us your freeze-dried antigen at ambient temperature. If the antigen is poorly soluble in aqueous solution, we suggest that you avoid lyophilisation and that you send us your protein in solution on dry ice. The addition of adjuvant will help to dissolve even lipophilic proteins. If the antigen does not dissolve, a fine suspension of the antigen will be obtained by thorough mixing. Such fine suspensions can also be useful for antibody production because particles are efficiently phagocytosed.

#### SDS-PAGE\*\*

For antibody productions with SDS-PAGE gel fragments, we advise our customers to cut out the band of interest and to aliquot it in separate tubes for each injection. The antigen tubes can be shipped at room temperature. The standard Coomassie and Coomassie-like staining procedure can be used since the Coomassie staining dyes do not interfere with the antibody evolution. However, silver stain is not allowed. The band should just be washed briefly but thoroughly in water to remove acetic acid and methanol residues, and then cut into injection pieces, and aliquoted wet into safe lock tubes to avoid drying. The gel must not be dried or lyophilised, because this would make the fragmentation before injection more difficult.

\*\* Not available for Speedy programme or small rodents.

#### In solution

You can send us your antigen in solution on dry ice. We recommend limiting as far as possible the use of detergents and aggressive chemicals such as acetic acid, guanidine hydrochloride, heavy metals and other agents that are toxic to the host animal.

It is possible to immunise animals with an antigen solution containing 8M-urea, but this is more painful for the rabbits. For this reason, we ask our customers to send us the antigen as concentrated as possible so that we can dilute the solution before injection in order to decrease the final urea concentration. Antigens in solution should be sent in a volume not exceeding the authorised amount per injection.

For ex:

Rabbit	500 µL/injection
Rat	250 µL/injection
Guinea Pig	250 µL/injection
Mouse	150 µL/injection
Hen	500 µL/injection
Goat/Sheep	100 µL/injection

## HOW TO ORDER ONLINE

WWW.EUROGENTEC.COM

### CUSTOM ANTIBODY

Online forms are available on our web site:  
<https://www.eurogentec.com/custom-antibody-production-order-forms.html>

1. Fill in the request form
2. Receive a quotation (and recommendations for the peptide sequence in case of anti-peptide production)
3. Complete and send the order form (you will receive the link by email with your quotation)
4. Receive a confirmation email (at this time, your immunisation will start)

For a general discussion about your project or a tailor-made quotation, please contact your sales representative or send your request to [proteomics.services@eurogentec.com](mailto:proteomics.services@eurogentec.com)  
 For monoclonal antibodies programme, please contact: [monoclonals@eurogentec.com](mailto:monoclonals@eurogentec.com)

### CATALOGUE ANTIBODY

The Eurogentec Ordering System (EOS) is the simplest and easiest way to place your orders.  
 Otherwise you can send an e-mail to [order@eurogentec.com](mailto:order@eurogentec.com), or contact your sales representative.

Cart > Shipping > Invoicing > Confirmation

My Kits & Reagents (2 item(s) / EUR)

By Family By Reference help

CATALOG ANTIBODIES

DESCRIPTION	SIZE	REFERENCE	QUANTITY	YOUR PRICE
★ OptiAb HA-11 (16812) Monoclonal Antibody, Affinity Matrix	500 µg	AFC-101P-500	2	375.00

## SHIPPING FEES

Custom polyclonal antibodies are shipped on dry ice. Custom monoclonal antibodies are shipped on dry ice or can be lyophilised and sent at room temperature.

Catalogue antibodies are usually shipped on dry ice. See our detailed shipping conditions on <http://www.eurogentec.com/shipping-conditions.html>



**EASY**

Online forms available on our website

Speedy Mini Order Form  
 Custom Polyclonal Antibody

1 Immunisation Specification 2 Contact Information

The Speedy Mini includes your peptide design, synthesis and coupling to KLH, a 28-Day immunisation of one rabbit and your antibody purification with an ELISA guarantee.

Your Program Name

Peptide Sequence (3 letter Code)

My peptide has been approved by Eurogentec and the antibody titre guarantee is applicable.

Comments

Please note that the peptide synthesis takes between 1 and 2 weeks, shifting the start of your immunization.

[Next Page](#)



## ANIMAL WELFARE

Animal welfare is our priority, that's why we strictly follow and even exceed the sternest ethical legislation in force. We respect the 3Rs philosophy. Reduce the number of animals used. Refine space to improve animal comfort. Replace animal use by other techniques whenever possible. With this aim, we can produce polyclonal antibodies from chicken eggs, and produce monoclonal antibodies exclusively *in vitro*.

### Our animal facilities are governed by stringent practices:

- BELAC, one of the most stringent ethical legislations in force.
- Facilities are cleaned 3-5 times a week with cleaning agents free from formaldehyde.
- Flow of traffic from the cleanest to the dirtiest area prevents cross-contamination.
- Daily observation of sentinel animals and health status are monitored as per FELASA recommendations.
- Each Animal has a balanced diet and the food is quality controlled.
- Temperature, pressure, relative humidity and ventilation systems (100 % HEPA filtered air for SPF animals) are recorded in real time.
- 24 hour staffed facilities with an intrusion alarm system, armoured doors and surveillance camera ensure absolute security.



### LARGE SCALE ANTIBODY PROJECTS

Species	Mean housing capacity
Rabbits	15000*
Guinea pigs	300*
Hamsters	200*
Rats	200*
Mice	400*

A polyclonal programme has an average yield of 10-20 mg specific rabbit Ab.

\*Can be easily adapted in large customer's requests.

## RELATED PRODUCTS

Catalogue & custom peptides

iD gels  
 iD Molecular Weight Standards  
 iD Western 1H Detection Kits

Takyon™ qPCR kits  
 Test your free sample,  
 visit [www.eurogentec.com/qpcr-takyon.html](http://www.eurogentec.com/qpcr-takyon.html)

Custom genes  
 Custom proteins

iD SensoLyte® assays kits

## TRADEMARKS AND LABELS

HiLyte™ is a trademark of Anaspec, Inc.

## LICENSE STATEMENTS

Sept. 2019

HiLyte™ Fluor dyes

- Use of this product is covered by one or more of the following US patents owned by AnaSpec, Inc.: USP 7,465,810, USP 7,754,893, USP 7,820,783, USP 8,258,292, and divisionals, continuations, continuations-in-part, reissues, substitutes, and extensions thereof. The purchase of this product conveys to the buyer a limited, non-exclusive, nontransferable right (without the right to sell, repackage, or further sublicense) under these patent rights to use only the amount of product purchased for the purchaser's own internal research. No other license is granted to the buyer whether expressly, by implication, by estoppel or otherwise. In particular, the purchase of this product does not include nor carry any right or license to use, develop, or otherwise exploit this product commercially, and no rights are conveyed to the buyer to use the product or components of the product for any other purposes, including without limitation, provision of services to a third party, generation of commercial databases, or clinical diagnostics or therapeutics. This product is for research use only. For information on purchasing a license to this product for purposes other than research, contact [licensing@eurogentec.com](mailto:licensing@eurogentec.com).



www.eurogentec.com

# Antibodies

**Contact:**

For more information, please contact  
your Sales representative  
or contact us at:

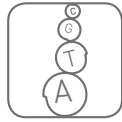
[proteomics.services@eurogentec.com](mailto:proteomics.services@eurogentec.com)

Eurogentec 2019

Follow us on



## Life Science Research



Oligos



PCR/qPCR



Genes/DNA



Antibodies



Peptides



Proteins