DAVIDS BIOTECHNOLOGIE GMBH CATALOG 2016





CUSTOM ANTIBODIES



Davids Biotechnologie

Davids Biotechnologie was founded 1996 in Regensburg, a world cultural heritage city in Germany. We offer all kind of custom made antibodies. This includes Polyclonal antibodies from rabbits, chicken, mice, rats or guinea pigs. Additionally we offer monoclonal antibodies from mice or rats. Any kind of customer provided or Davids made antigens are possible. We developed animal and ecologically friendly protocols to produce the antibodies. This leads to efficient methods and low prices. Furthermore Davids developed methods to produce antibodies within 28 days (SuperFast) or with a very low amount of antigen (LowDose).

Our purification methods are very well established and we offer Affinity, ProteinA, Depletion, Size-Exclusion, Ion-Exchange, IgM or any other purifications that fits to your antibody project.

We offer different kind of antigen production services. This includes peptide synthesis, protein expression, SDS-gel extractions and more to generate your antigens for the antibody production.

Additionally we modify your antibodies like fragmentation, enzyme or dye conjugations.

Custom Antibodies: Introduction

We produce antibodies from antigens provided by the customer. Our customers are able to send us their antigen (protein, peptide sequence, small molecules, DNA, cells) and we perform the immunization of the desired animal. After the immunization process the customer receives the antisera or the purified antisera for their research.

For monoclonal antibodies we isolate spleen cells, perform the fusion with myeloma cells and screen for positive clones. You receive the antibody producing clone and/or purified antibodies from your antibody producing clone.

How to order Custom Antibodies

We keep the order process simple. Just send us your antigen with the catalog number or the desired final antibody and we start with the antibody production as soon as your antigen arrives. For further questions please contact us.



Cat.No.	Animal	Preimmune	Test Bleed	Final Product	Purification
				Polyclonal	Rabbit Antibodies
A053	One Rabbit	0.5 ml	0.5 ml	40 – 90 ml Antiserum	additional service available
A054	Two Rabbits	2 x 0.5 ml	2 x 0.5 ml	80 – 180 ml Antiserum	additional service available
A055	One Rabbit	0.5 ml	0.5 ml	40 – 90 ml Antiserum	additional service available
A056	One Rabbit	0.5 ml	0.5 ml	40 – 90 ml Antiserum	additional service available
A061	Two Rabbits	2 x 0.5 ml	2 x 0.5 ml	Phosphospecific Antibodies	Affinity Purified & Depleted
			F	Polyclonal Chicken Eg	g Yolk Antibodies
A001	One Chicken	0.5 ml	-	Prepl from 8 eggs	Prepl
A002	Two Chicken	2 x 0.5 ml	-	Prepl from 16 eggs	Prepl
A003	One Chicken	0.5 ml	-	PrepII from 8 eggs	PrepII
A063	Two Chicken	2 x 0.5 ml	-	Phosphospecific Antibodies	Affinity Purified & Depleted
			Polyclo	onal Antibodies from s	mall mammalians
A201	One Guinea pig	0.1 ml	-	5 – 15 ml	additional service available
A205	One rat	0.1 ml	-	2 – 10 ml	additional service available
A402	Two mice	2 x 0.05 ml	-	0.2 – 0.5 ml	additional service available

Our Antibody Packages Includes everything you need for your final antibody.

You can order additional services to our basic antibody packages. Simply add an antigen preparation/synthesis service or a purification method to your antibody package.



ANTIGEN PRODUCTION

Suitable Antigens for the Antibody Production



For the antibody production nearly any kind of antigen can be used. Usually proteins, peptides, SDS-Gel pieces, DNA, cells or small molecules are used for polyclonal or monoclonal antibodies.

When you have purified protein available the native protein can be used as antigen. When the purification of the protein is difficult or when the purified protein shows multiple bands in a SDS-gel you can use our SDS-Gel Extraction service. For proteins you only know the sequence from you can use our Peptide Antibody Service. Here we are looking for peptides that represent your protein. Our prediction program predicts the antigenicity, solubility and epitopes of the peptides.

If you have any questions regarding your antigens you can just send us an email.

Customer provided proteins as antigen

We start with the immunization as soon as your antigen arrives.

Proteins are usually shipped with dry ice, cool packs or lyophilized at room temperature, depending at what conditions the protein is stable. The buffer should be non-toxic and at a physiological pH. The buffer can contain additions like glycerol, urea, etc (see Figure 1). We recommend a protein concentration between 0.2 and 2 mg/ml.

Buffer Conditions	Maximum Concentration	Buffer Conditions	Maximum Concentration
Urea	2 M	Glycerol	10%
NaCl	200 mM	SDS	0.1%
Imidazole	200 mM	Triton X-100	0.2%
Dithiothreitol (DTT)	2 mM	EDTA	1 mM
Citrat or Acetat	100 mM	TRIS	100 mM
Other components on demand. We also offer buffer exchange services.			

Figure 1: The buffer can contain the following ingredients. Examples for buffer contents.

Proteins from SDS-Gel Pieces: Cat.No. A705

We are able to use your protein specific SDS-PAGE gel bands as antigen. The advantage is that you save time with complicated purification steps. In addition you are able to get rid of even small protein contaminations. The final antibodies are usually very good for applications like western blot.

The gel extraction is simple. Prepare a solution with at least 0.5 mg protein for the immunization of one rabbit for example and additional 0.5 mg protein if you want to order an affinity purification. Just run multiple bands with your protein solution, dye



the gel with coomassie and cut all bands that belong to your protein from the SDS-PAGE gel (see Figure 2). Send the gel pieces in a 2-ml or 15-ml tube at room temperature without the addition of any solvents.



Figure 2: Scheme of the gel extraction

Peptide Antibodies: Cat.No. P101 and P102

If you only know the sequence of your protein or when your protein is hard to express and purify we can synthesize peptides that represent your whole protein.

We help you to find peptides that represent your protein (see Figure 3) - this service is free. These peptides have to be antigenic, soluble and must have good epitopes. For a higher chance to use the best peptide, you can immunize one animal with two different peptides. This doubles your chance to use the best peptide for your applications.

The peptide production is done with solid phase synthesis. Quality controls are done by HPLC and MS with each peptide. The purity is about 80% (70 –98%) for the immunizations. The synthesized peptides are conjugated to a carrier molecule like KLH to improve the antigen presentation of the small peptides. The synthesis, conjugation and/or the immunizations can be performed by Davids. To receive monospecific antibodies we recommend performing affinity purification.



Figure 3: Peptide Antibodies



We can produce peptide antibodies from rabbits, chicken, mice, rats and guinea pigs. Just send us your protein sequence (amino-acid one letter code preferred) and we analyze the sequence for free and handle your data confidentially. An order is only placed when you confirm one or more peptides.

Cells as antigen: Cat.No. K105

We recommend using our Cell Immunization KIT for optimal presentation of the cell surface antigens. You can send us your dead cells and we perform the preparation of the cells in our lab.

Small Molecules as antigen: Cat.No. P105

We are able to use your small molecules as antigen. To enhance the antigenicity and the epitope presentation of small molecules we use different conjugation methods to bind the antigen to a carrier like KLH, Ovalbumin, Tyroglobulin, BSA or Dextran. DNA as a small molecule is handled differently. We prepare the DNA for the immunization with multiple steps. For further information you can write us an email.



Overview of suitable antigens

We offer the antibody production with the following antigens. Some antigens need additional synthesis or preparations that have to be ordered in addition to your antibody package.

The needed amount is calculated for the immunization of one rabbit. For smaller animals like mice, guinea pigs or rats less antigen is sufficient. If you do not fit the requirements just write us an email. We already successfully produced antibodies with less amount of antigen.

	Catalog Number	Description	We Need for one animal
Proteins	Antigen Provid	ed by Customer	Your Protein (0.2 – 0.6 mg)
Peptides	P101	One Peptide	Your Protein Sequence (amino acids)
	P102	Two Peptides	Your Protein Sequence (amino acids)
SDS-Gel Pieces	A705	Gel Extraction	Your SDS-Gel Pieces (0.2 – 0.6 mg)
Cells	K105	Cell Preparation	Dead Cells (10 ⁷ – 10 ⁸ cfu)
DNA	A703	DNA Preparation	Your DNA (1 – 2 mg)
Small Molecules	P105	Conjugation	Your small molecule (0.5 – 5 mg)



POLYCLONAL ANTIBODIES

Introduction

Polyclonal antibodies are the antibodies of choice when you need inexpensive and fast produced high affinity antibodies. The polyclonal antibodies recognize multiple epitopes of the antigen. With polyclonal peptide antibodies we are able to produce antibodies that target an epitope region which can be helpful when you want to distinguish between protein families or if you want to detect multiple families with one antibody batch.

Polyclonal Rabbit Antisera

We use "New Zealand White Rabbits" for the production of your polyclonal antibodies. It is the most used species to produce custom polyclonal antibodies. You receive a good amount of high-titer and high-affinity antibodies at low costs with "New Zealand White Rabbits". In addition rabbits are easy to handle and additional test sera are easy to prepare. The final amount of antibodies is very good comparing with mice, rats or guinea pigs.

We have different protocols for the needs of our customers. Our standard 63-day protocol fits to most applications. For customers who need their antibodies faster we offer our SuperFast procedure, which takes 28-days. Here we use a superior adjuvant and a proprietary immunization schedule. The titers are comparable to 63-or 90-day protocols (Figure 4). We are able to immunize one (A053), two (A054) or more rabbits with the same antigen.





For expensive antigens or antigens from where you only have a small amount available we offer our LowDose Protocol (Cat.No. A056). Here we are able to produce antibodies with a smaller amount of antigen < 0.2 mg.



		MAD	Carling and the second se
	Cat.A055	Cat.A053	Cat.A065
	28-day Protocol	63-day Protocol	93-day Protocol
Schedule	28 days	63 days	93 days
Immunizations	4	5	5
Serum Amount	40 – 90 ml	40 – 90 ml	40 – 90 ml
Suitable Antigens	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules
Antigen Needed	0.2 – 0.6 mg Protein	0.2 – 0.6 mg Protein	0.2 – 0.6 mg Protein
Antigen Concentration	0.2 – 2 mg/ml	0.2 – 2 mg/ml	0.1 – 2 mg/ml
Antigen Buffer	Non Toxic buffers	Non Toxic buffers	Non Toxic buffers
Additional Purification Available	Precipitation (R001) Protein A (R008) Affinity Purification (R007)	Precipitation (R001) Protein A (R008) Affinity Purification (R007)	Precipitation (R001) Protein A (R008) Affinity Purification (R007)

Our rabbit antisera custom antibodies include preimmune serum from day 0, a test bleed at day 35 (not available with our 28-day protocol), an ELISA titer determination and the final bleed. You can order additional purifications for your rabbit antisera.

Polyclonal Antibodies from Chicken Egg Yolk

Our polyclonal chicken egg yolk antibody services include the immunization, egg collection and the egg yolk preparation of up to 8 immune eggs. This Prepl preparation of the immune eggs is ready to use and is comparable with raw sera from mammalians. Additional preparations like our PrepII uses chromatographic polishing steps to remove most lipids and lipoproteins of the egg yolk preparation. This PrepII is comparable with ProteinA purifications and is superior in most applications. Additionally we are able to perform affinity purifications with the egg yolk.

For antibodies that are used in cell cultures we offer our PrepIII multi-step purification. This fraction can be used directly in cell cultures. It is chromatographically purified, sterile filtered and has low endotoxin and low DNA.



	Cat.A001	Cat.A002	Cat.A003
	43-day Prepl	43-day Prepl	43-day Prepll
Schedule	43 days	43 days	43 days
Immunizations	4	4	4
Animals	1	2	1
Eggs Included	8 eggs correspond to 100 ml serum	2 x 8 eggs correspond to 200 ml serum	8 eggs correspond to 100 ml serum
Suitable Antigens	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules
Antigen Needed	0.2 – 0.6 mg Protein	0.2 – 0.6 mg Protein	0.2 – 0.6 mg Protein
Antigen Concentration	0.2 – 2 mg/ml	0.2 – 2 mg/ml	0.2 – 2 mg/ml
Antigen Buffer	Non Toxic buffers	Non Toxic buffers	Non Toxic buffers
Included Purification	Prepl	Prepl	PrepII
Additional Purification Available	PrepII (A003) Affinity Purification (R007)	PrepII (A003) Affinity Purification (R007)	Affinity Purification (R007)

Our chicken egg yolk antibodies includes a ready to use egg yolk preparation "Prepl" or "PreplI" and preimmune egg yolk preparation. The advantage of chicken egg yolk antibodies is that you are able to receive additional antibodies from the same animal. The chicken keeps on laying immune eggs. If you decide within 30 days after you receive the first antibody preparation that you need more antibodies we can prepare them from the same animal (A012). You can order additional purifications for monospecific antibodies.



Advantages of Chicken Egg Yolk Antibodies

- One hen produces egg yolk antibodies that are comparable to the amount of 4000 ml serum (8000 ml of blood) in one year.
- Hens need less amount of antigen than rabbits. The antibody output is up to 10 times higher compared with rabbits. This saves costs and reduces animal treatments.
- Eggs from chicken egg yolk (also called IgY) are used in the same way as mammalian IgG from serum. (RIA, ELISA, WesternBlots, Immunohistochemistry, Ouchterlony, Nephelometry, Latex agglutination, Immunoelectrophoresis, Enzyme inhibition assay, Immunosorbent assays, FACS, etc.).
- Secondary antibodies with all usual conjugates are commercially available.
- IgG from chicken egg yolk can be fragmented like mammalian IgG utilising Papain or Pepsin to produce Fab or Fab' fragments.
- IgG from chicken egg yolk shows low non-specific binding because it does not bind to complement factors, rheumatoid factors, mammalian IgG, *Staphylococcus aureus* ProteinA or *Streptococcus* ProteinG.
- Chicken egg yolk antibodies are a good possibility to get high specific and high binding antibodies directed to mammalian antigens. Sometimes they are the only possibility. The large advantage is the phylogenetic distance between birds and mammals. In consequence you need less amount of antigen and fewer animals which lead to reduced costs to get an optimal antibody for your purposes.
- The production of egg yolk antibodies is a method to avoid and to reduce unnecessary maltreatment of animals (no bleedings, fewer immunisations, species adapted keeping).
- IgG from egg yolk is stable at 4°C for a long time and could be frozen directly or after the addition of 25 – 50% glycerol (end concentration) without loss of activity



Polyclonal Antibodies from small mammalians: Mouse, Rat, Guinea pig

We offer polyclonal antibodies in mice, rats or guinea pigs. The service includes the immunization, preimmune taken before the first immunization and the final bleed. Additionally an ELISA titer determination is performed.

	No.		
	Cat.A402	Cat.A205	Cat.A201
	63-day: 2 Mice	63 day: 1 rat	63-day: 1 guinea pig
Schedule	63 days	63 days	63 days
Immunizations	5	5	5
Animals	2	1	1
Serum	2 x 0.2 – 0.5 ml	2 – 10 ml	5 – 15 ml
Suitable Antigens	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules	Protein Protein (SDS Gel) Peptide DNA Cells Small Molecules
Antigen Needed	0.1 – 0.5 mg	0.2 – 0.6 mg	0.2 – 0.6 mg
Antigen Concentration	0.2 – 2 mg/ml	0.2 – 2 mg/ml	0.2 – 2 mg/ml
Antigen Buffer	Non Toxic buffers	Non Toxic buffers	Non Toxic buffers

Phosphospecific Polyclonal Antibodies

For phosphospecific antibodies we synthesize the non-phospho-peptide and the phosphopeptide. The customer receives an aliquot of the synthesized peptides and the affinity purified and depleted antibodies.



	Cat.A061	Cat.A063
Schedule	63 days	63 days
Immunizations	5	5
Animals	2 rabbits	2 hen
Peptide (phospho)	5 mg for customer	5 mg for customer
Peptide (standard)	5 mg for customer	5 mg for customer



For antibodies that recognize a phosphorylated site of a protein. After synthesis and conjugation of the phosphospecific peptide (1) the animals are immunized (3) with the conjugated phospho-peptide (2) to produce antibodies. After antibody production the serum is affinity purified with the phospho-peptide to get specific antibodies (4). In this stage of the process there are still some antibodies recognizing the non-phosphopeptide. To get rid of these unwanted antibodies a depletion is necessary. The affinity purifies serum is depleted with a non-phosphopeptide depletion matrix. The result are phosphospecific antibodies (5).

Figure 5: Scheme of phosphospecific antibody generation.



Specific Phospho-Antibodies



MONOCLONAL ANTIBODY DEVELOPMENT

Introduction

When you need antibodies that recognize one single epitope and antibodies that are reproduced constantly, monoclonal antibodies are the perfect choice for you. In addition every batch of your produced antibodies has no or very low variability. Monoclonals are very specific and thus usually have less background in many applications. In combination with their reproducibility, monoclonals are very good for different assays.

We develop your custom monoclonal antibodies from mice or rats with any kind of antigen. To receive the best results we alter the concentration of the antigen for the immunizations. This ensures optimal immune response and we continue with the best mouse. In addition you can start or stop with each step. This enables you to send us spleen cells and we just perform the fusion and screening. Or we perform the immunization and you continue with the fusion and screening in your own lab. The development of monoclonal antibodies is very specific for each customer. We can adapt our protocols for your special needs. This includes immunization protocols, screening conditions or alternative screening substrates.

Step 1: Immunizations: Cat.M001

The graph shows the immune response of 4 mice immunized with different antigen concentrations.

The mouse with the best titer is usually used for the next steps.



- Immunization of 4 BALB/c mice or rats with different antigen concentrations to have a broader spectrum of responses
- ELISA titer determination
- Testserum for the customer to perform their own ELISA to determine the best titer
- More boosts or start of the fusion

Step 2: Spleen Cell Isolation: Cat.M002

- The chosen mouse from Step 1 gets a final immunization to boost the antibody producing cells
- Spleen cells are isolated for direct fusion
- Part of the cells is cryoconserved as backup
- The spleen cells can be send to the customer for self made fusion or RNA isolation



Step 3: Fusion: Cat.M003

- Spleen cells from Step 2
- Fusion with immortalized myeloma cell line

Step 4: Screening for positive clones: Cat.M004

- Growing of the fusion cells
- Screening of the clones in cell culture plates
- Up scaling of stable and positive clones and further screening
- Isolation and storage of the best clones
- You receive 10-ml supernatant of the best clones for your own applications
- You receive the best clones in frozen vials or in cell culture

Step 5: Subcloning: Cat.M005

- Subcloning of the best positive clones with our limiting dilution method
- Ensure that the clone is truly monoclonal
- Improve long-term stability

IN VITRO MONOCLONAL ANTIBODIES

In vitro antibodies are save time and money as you spare the immunization procedure of the animals. The advantage is that you can use antigens like self-antigens or toxic antigens.

Our in vitro monoclonal antibody service includes the antigen preparation. The antigen is incubated with spleen cells from mice after the preparation. The incubated cells are used for the fusion with myeloma cells.

The screening for positive clones is included as well. You receive supernatants of the positive clones and the clone itself for your own antibody production.

Just order our all-inclusive in vitro antibody package Cat.No.M010.



MONOCLONAL ANTIBODY PRODUCTION

We can produce your monoclonal antibodies from your clone. Just send us your clone and we produce and purify your antibody. We have different purification methods available to adapt the purification to your antibodies.

	Cat.M301-20	Cat.M301-100	Cat.M301-XXX
Production Amount	20 mg	100 mg	Individual



ANTIBODY PURIFICATION

Affinity Purification: Cat.R007

Affinity Purification is a chromatography, which is used to separate molecules in a solution. The molecule of interest (i. e. antibodies) makes a specific interaction to the affinity matrix (i. e. antigen covalently bound to the affinity matrix). All non-specific molecules (i. e. antibodies that do not bind the antigen) cannot bind the affinity matrix and are washed. The molecule of interest is eluted afterwards.

Affinity purified antibodies have large advantages in many applications. Usually you can use higher concentrated antibodies in your applications like IHC, WesternBlot or DotBlots with reduced background.

The first step of the affinity purification is the creation of the affinity matrix. For each antibody a specific matrix is produced. The matrix material is incubated with the antigen under special conditions. Under these conditions covalent bindings are formed between the matrix and the antigen. In the next step the matrix is used to purify the antisera or the Prepl from chicken egg yolk. The specific antibodies (red in Figure 6) bind the antigen (orange in Figure 6) covalently bound to the matrix. The unspecific antibodies (blue in Figure 6) are washed and the specific antibodies can be eluted afterwards.



Our affinity purification includes the creation of the affinity matrix and the affinity purification to receive antigen-specific antibodies. Cat.R007 is for one serum, Cat.R007-2 is for two sera from the same antigen. We can use proteins, peptides, small molecules, nucleic acids and cells for covalent conjugation to the affinity matrix.



ProteinA Purification: Cat.R008

ProteinA and ProteinG are proteins from the cell wall of *S. aureus*. ProteinA binds the Fc part of the antibodies, especially from IgG. With the ProteinA or G purification all IgG's are purified from the antiserum. Most of the lipids, polysaccharides, IgE or IgM are removed from the fraction.

Our ProteinA purification Cat.R008 includes serum preparation and the purification.

Depletion: Cat.R101

With antibody depletion you can remove antibodies from a fraction you do not want. For example, you can remove antibodies that recognize a HIS/MBP/Strep-tag or antibodies that recognize *E. coli* proteins (Figure 7). The tag is bound to an affinity matrix and the anti-tag-antibodies bind to the affinity matrix. All unbound antibodies are used for further applications.

Figure 7: Scheme of a HIS-tag depletion.





PRICE LIST

		Antigen Preparation
Catalogue Number	Description	Price in EUR
Peptides for Antibodies		
P101	One Peptide Synthesis up to 20 aa, >70% purity	344,00
P102	Two Peptides Synthesis, up to 20 aa, >70% purity	473,00
Antigen Preparation Ser	vice	
A703	SDS-Gel Extraction	43,00
K105	Cell Immunization Preparation	89,00
P105	Conjugation to a carrier like KLH, BSA, Ovalbumin	68,00

		Polyclonal Antibodies
Catalogue Number	Description	Price in EUR
Polyclonal Rabbit Antibo	odies	
A053	One rabbit antiserum (40 – 90 ml)	274,00
A054	Two rabbit antisera, same antigen (80 – 180 ml)	516,00
A055	SuperFast antiserum, 28-days (40 – 90 ml)	344,00
A056	LowDose antiserum, 63-days (40 – 90 ml)	368,00
A061	Phosphospecific Antibodies, two rabbits, 63-days	1595,00
Polyclonal Chicken Egg Yolk Antibodies		
A001	One hen complete package, Prepl	368,00
A002	Two hen complete package, Prepl	602,00
A003	One hen complete package, PepII	395,00
A012	Additional Immunization, 8 egg collection and Prep	l 150,00
A063	Phosphospecific Antibodies, two chicken, 63-days	1595,00
Polyclonal Antibodies from small mammalians		
A201	One guinea pig, 63-days	260,00
A205	One rat, 63-days	195,00
A402	Two mice, 63-days	144,00

		Purifications
Catalogue Number	Description	Price in EUR
Purification		
R001	Fractionated ammonium sulphate precipitation	89,00
R007	Affinity Purification	233,00



R007-2	Affinity Purification from two sera, same antigen	368,00
R008	ProteinA Purification	189,00
Depletion		
R101	Anti-tag Depletion	129,00

		Monoclonal Antibodies		
Catalogue Number	Description	Price in EUR		
Monoclonal Antibody Development				
M001	Immunization of 4 mice	795,00		
M002	Isolation of spleen cells from one spleen	172,00		
M003	Fusion of the spleen cells with myeloma cells	430,00		
M004	Screening and isolation of positive clones	1591,00		
M005	Subcloning of one clone	610,00		
Additional Monoclonal Antibody Services				
M006	Subclass Determination: IgG/IgM	21,00		
M010	In vitro Monoclonal Antibody Service	3595,00		
Monoclonal Antibody Production				
M301-20	Monoclonal Antibody Production & Purification : 20) mg 795,00		
M301-100	Monoclonal Antibody Production & Purification : 10	00 mg 1495,00		

		Cell Services
Catalogue Number	Description	Price in EUR
Isolation of Cells		
N101	Spleen Cell Isolation from one immunized animal	172,00
N201	PBMC: Isolation of lymphocytes from whole blood	43,00
O101	Bone Marrow (femur) lymphocytes	250,00
T901	RNA Isolation from cells: 10 ⁶ to 10 ⁸	168,00



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Davids Biotechnologie GmbH Röntgenstraße 3 93055 Regensburg Deutschland

Vertretungsberechtigter Geschäftsführer: Dr. Michael Werner Davids

Tel.++49 (0)941 948228 Fax.++49 (0)941 9468119 EMail: <u>info@dabio.de</u>

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Pricing

All prices are given in EURO without VAT and are subject to change without notice. For shipping and handling including packing material we charge EURO 26. The terms of payment are strictly 30 days from date of invoice after delivery directly to.

Picture Index

Picture	Picture Name	© Author / Quelle
	Cute Rabbit	© camellias / Fotolia.com
	Mouse on the edge	© aaali / Fotolia.com

Conditions of sale

The products in this catalog are for laboratory research only, unless otherwise specified.



Davids Biotechnologie cannot be held responsible for the usage of antibodies. We cannot guarantee that the antibodies directed against antigens selected by the customer are useful in the customers (special) assays. But we are happy to make supportive suggestions that however do not correspond with a guaranty.

We wait for 21 days after the delivery of the egg yolk antibodies. Unless the customer informs us about the continuation of the production, we stop the production irreversibly.

This catalogue remains valid until the publication of a new one including new prices and new conditions.

Shipping conditions

Antibodies are stable for several weeks from 4°C to 38°C. Within this range of temperature the antibodies are shipped. Freezing and thawing cycles are prevented in winter by addition of cooling bricks at 10°C starting temperature.

Confidentiality

It is our philosophy that Davids Biotechnologie guarantees that all customers' related data are handled absolutely confidential.