

Your Trusted Research Partner

1st BASE is your trusted and reliable partner in providing effective solutions for your research needs. We are able to achieve that with strong technical support, industry-leading customer service and a strong emphasis on quality and efficiency. Talk to us today to find out about our solution to your research success.

How to Order?

For more information on our Antibody Production packages, please visit www.base-asia.com/antibody_production. Please download and complete our Antibody Production Order Form from www.base-asia.com/antibody_production/how_to_order

International Distributors

Please contact our appointed international distributors below for orders and enquiries.

Hong Kong

Life Scientific Co. Ltd.
(formerly called as Health Care & Co.)
Rm B01, 20/F, Bold Win Industrial Building
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Tel: +852 2987 8878
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Indonesia

PT Genetika Science Indonesia
Ruko Puri Mansion, Blok A No 19,
Outer Ring Road,
Jl. Lingkar Luar Barat Puri Kembangan,
(Seberang showroom Auto 2000 Toyota)
Jakarta Barat, 11610.
Tel: +62 21 29866875 / 76
Fax: +62 21 2986 6879
Email: info@ptgenetika.com
Web: www.ptgenetika.com

Philippines

AsiaGel Corporation
Block 1 Lot 2, Villa Lourdes Townhomes Brgy
Bahay Toro, Congressional Avenue, Quezon City
Tel: +632 9201 603
Fax: +632 9203 667
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Thailand

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For other countries, please visit www.base-asia.com to find our network of distributors. If you are unable to locate a distributor, please contact 1st BASE directly at info@base-asia.com



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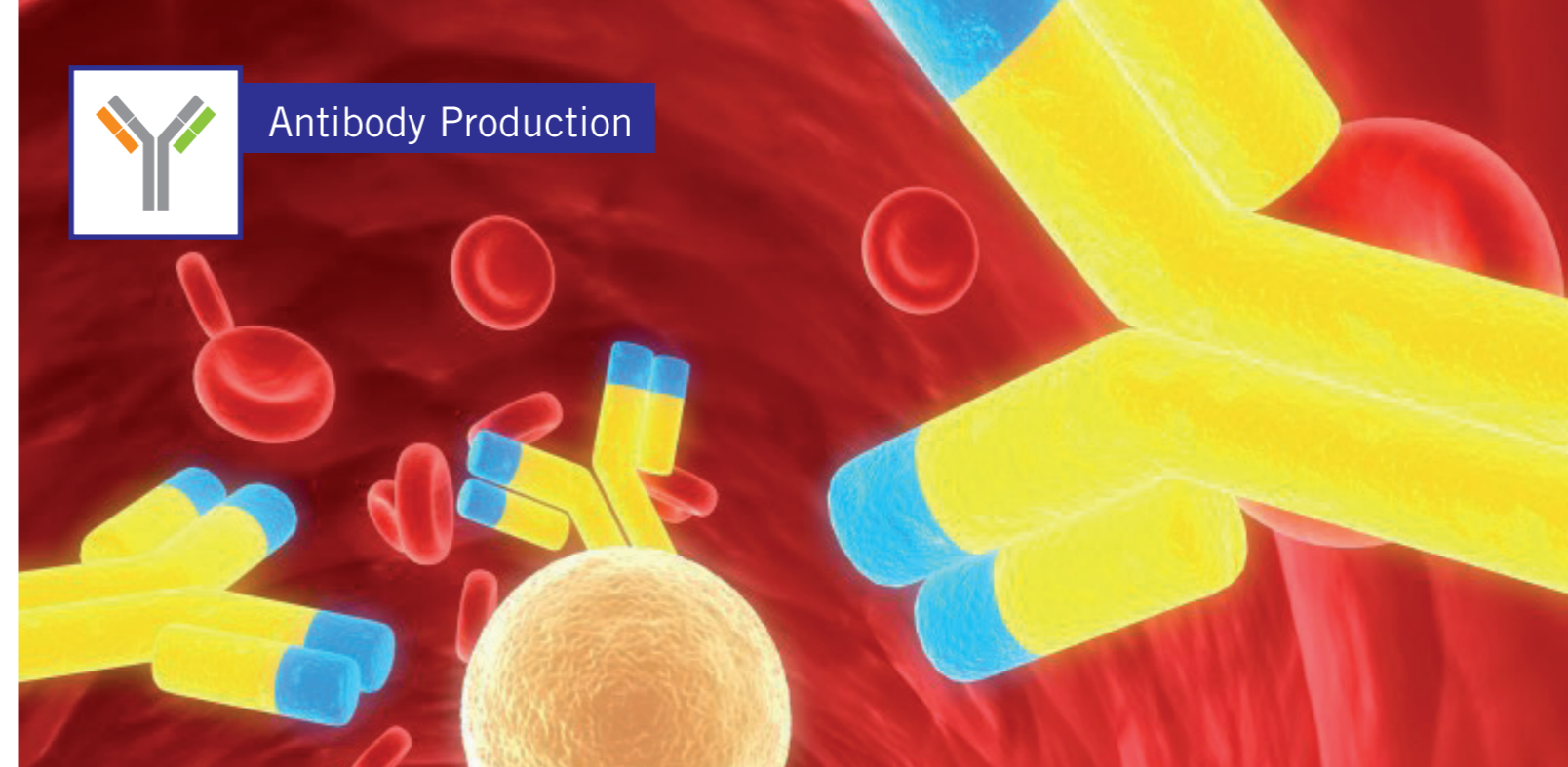
First BASE Laboratories Sdn Bhd

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Antibody Production



1st BASE Antibody Production Services – A Reliable Partner for Raising Custom Antibodies

At 1st BASE, we are proud to offer a comprehensive range of services for Antibody Production. A committed team of scientists is on hand to provide timely and personalised services for your projects.

Our monoclonal and polyclonal antibody service provides high quality of antibodies to meet your research needs!

- Full Range of Polyclonal & Monoclonal Antibody Packages
- Peptide Design, Synthesis & Conjugation
- Screening & Titering Analysis
- Affinity Purification



Polyclonal Antibody Production

1st BASE offers a standard 8-week production protocol that balance between fast turnaround time and quality. We offer packages for customer-provided antigens, single-peptide projects, peptide cocktail projects, and phospho-peptide projects.

Features:

- 1) Free peptide design and antigenicity analysis for Peptide Antibody projects
- 2) Stringent quality monitoring and titer checking by ELISA to ensure specificity and yield of polyclonal antibody
- 3) Standard protocols designed to deliver highest affinity, specificity and yield
- 4) Antibody Production from a variety of hosts available (Rabbit, Chicken and Goat)

Standard 8-weeks Production Schedule

Week 0: Pre-immunization bleed
Week 2: Immunization No. 2
Week 4: Immunization No. 3
Week 5: Production Bleed No. 1 / Egg Collection No. 1 (Chicken)
Week 6: Immunization No. 4
Week 7: Production Bleed No. 2 / Egg Collection No. 2 (Chicken)
Week 8: Production Bleed No. 3 / Egg Collection No. 3 (Chicken)

Note: The standard schedule excludes peptide synthesis which takes an additional 2 weeks approximately.

Rabbits (New Zealand White Rabbit)

- Most common host species for peptide and protein antigens but not ideal for highly conserved mammalian antigens
- One/Two Rabbits Standard 8-week PAb Package yields approximately 75mL serum per rabbit
- Redi-Rabbits™ PAb Packages offers guaranteed antibody yield against peptide immunogens
- Two Rabbits with Phospho-Specific Peptide PAb Packages
- Two/ Four Rabbits Guaranteed PAb Packages
- Two Rabbits with Cocktail Peptides - PAb Packages

Chicken (California Leghorn Chicken)

- Non-mammalian host species, ideal for conserved mammalian protein antigens, non-invasive, animal-friendly and yields large quantity of antibodies from egg yolks
- Two Chickens Standard 8-week PAb Packages yields up to 21 yolks per chicken.

Goat (Boer Goat)

- Ideal for projects that requires large quantities of serum but not ideal for modified peptide antigens
- Standard 8-week production schedule yields approximately 750-900mL serum

Antigens for Antibody Production

Customers may send us their antigen in their selected Antibody Production package. Please send us your antigen in the following conditions:

Antigen Form	Concentration	Storage/ Shipping Condition	ELISA and immuno-affinity purification services	Buffer Components	Remarks
Solution	1mg/mL or higher concentration. **Please specify the concentration, total volume and amount.	Room Temperature	Required	PBS, Tris, < 4M urea are preferred; acceptable for SDS and citrate buffers	Precipitation is not problematic for use in immunization for custom polyclonal antibody production.
Lyophilized	Please specify total amount of antigen contained	4°C, -20°C, -80°C	-	-	Please specify if any specific reconstitution steps needed
Gel Strips	Reasonably concentrated protein (2-5 mg/mL). Use a lower concentration if precipitation occurs.	Place strip in 15 or 50mL conical vial with water and ship with icepack. <i>Do not freeze!</i>	-	-	Stain the whole strip with coomassie blue. Then de-stain, rinse, and cut the desired strip from the gel (Please don't chomp it up).

Additional information required before antigen submission:

- Antigen type
- Antigen Species of Origin
- Quantity of Antigen
- Number of vials
- Antigen size
- Antigen Lot Number (if assigned)

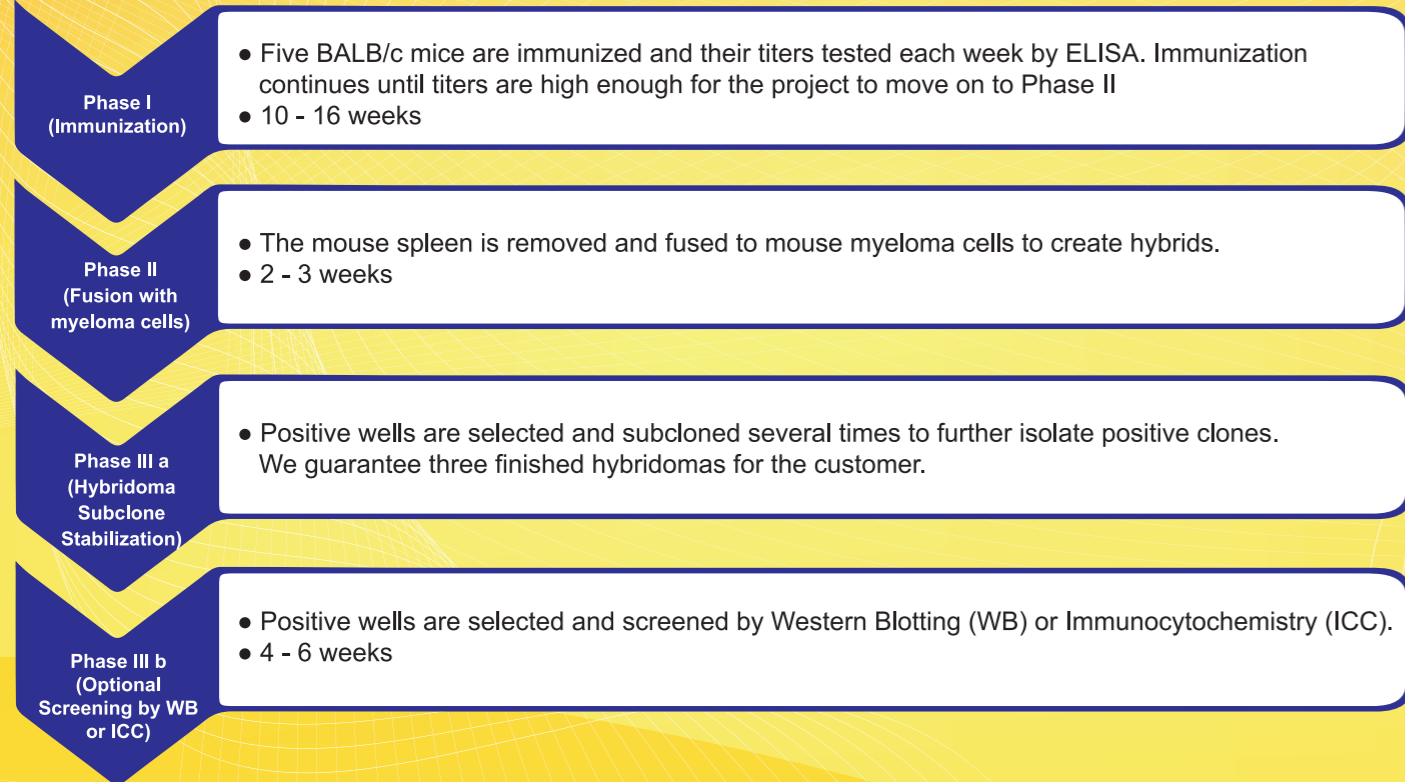
Alternatively, customers may seek our service to review and recommend a peptide antigen. Please provide the following information for us to recommend suitable peptide sequences for your antibody project.

- Protein Accession Number
- Protein Sequence Organism (i.e.: human, mouse, rat)
- Protein Name
- Protein Sequence
- Regions of Interest (i.e.: from residues X to X)
- Protein Type (i.e.: membrane, type I, nuclear, etc.)
- Desired Research Application (i.e.: western blotting, IHC, etc.)
- Site(s) previously used (if applicable)
- Additional Information (if any)

Monoclonal Antibody Production

We use 5 BALB/c mice as a production strain for hybridoma development. 5 BALB/c mice is a common species used for monoclonal antibody development as they are able to yield a higher number of splenocytes at fusion due to their large spleen to body size ratio.

At 1st BASE, we offer hybridoma development for custom monoclonal antibodies production from synthesized peptide or protein antigens.



Product No	Description
MAS1	Custom MAb Production Package 1A: Client provides antigen. * Phase I: Immunization of 5 mice * Phase II: Fusion of mouse spleen with myeloma cells * Phase IIIa: ELISA screening and Subclone of 3 positive wells
MAS1S	Custom MAb Production Package 1B: Client provides antigen. * Phase I: immunization of 5 mice * Phase II: fusion of mouse spleen with myeloma cells * Phase IIIa: ELISA screening and Subclone of 3 positive wells * Phase IIIb: WB/ ICC Screening
MAS2	Custom MAb Production Package 2A: Peptide synthesis (HPLC >90%, <25 aa) & Conjugation * Phase I: immunization of 5 mice * Phase II: fusion of mouse spleen with myeloma cells * Phase IIIa: ELISA screening and Subclone of 3 positive wells
MAS2S	Custom MAb Production Package 2B: Peptide synthesis & Conjugation * Phase I: immunization of 5 mice * Phase II: fusion of mouse spleen with myeloma cells * Phase IIIa: ELISA screening and Subclone of 3 positive wells * Phase IIIb: WB/ ICC Screening

Additional services available for Monoclonal Antibody include peptide synthesis, multiple ELISA screening, additional clone, additional Western blot or immunocytochemistry screening. Please contact our Product Specialist for more information.

One/Two Rabbits Standard 8-week PAb Package

Yields approximately 75mL serum per rabbit.

Service Name	Deliverables				
	Peptide Synthesis (up to 15aa, > 70% Purity), Conjugation	Pre-immune Serum	Serum	Affinity-Purified Antibody	ELISA Report
PAb 8-1RAB1 (1 Rabbit)	Immunogen provided by researcher		Each rabbit: 25mL from 3 Bleeds (Total 2 x 3 x 25mL)	NIL	
PAb 8-RAB1 (2 Rabbit)					
PAb 8-1RAB2 (1 Rabbit)	5 mg	Each rabbit 5mL (total 2 x 5mL)	Each rabbit: 25mL from Bleed 1, 25mL from Bleed 2, and 12.5mL from Bleed 3	From 25mL of Bleed 3 (each rabbit 12.5mL)	Each rabbit on Bleed 1
PAb 8-RAB2 (2 Rabbit)					
PAb 8-1RAB3 (1 Rabbit)					
PAb 8-RAB3 (2 Rabbit)					
PAb 8-1RAB4 (1 Rabbit)			NIL	From 150mL of all Bleeds (each rabbit 75mL)	
PAb 8-RAB4 (2 Rabbit)					

Redi-Rabbits™ PAb Packages

Offering guaranteed antibody yield against peptide immunogens. Each package includes project-specific protein A purified control rabbit IgG, 5mg of peptide and immuno-affinity purified peptide-specific antibody.

Service Name	Deliverables				
	Peptide Synthesis (up to 15aa)	Control Antibody (Protein A purified pre-immune serum from project-specific rabbits)	Serum	Affinity-Purified Antibody with guaranteed yields	ELISA Report
PAb-Redi-RAB1	5 mg		NIL	3 mg	NIL
PAb-Redi-RAB2				5 mg	
PAb-Redi-RAB3				10 mg	
PAb-Redi-RAB4				20 mg	

Two Rabbits with Phospho-Specific Peptide PAb Packages

Provide phosphorylated antibodies which are highly specific to the target protein. Phosphorylation involves the addition of phosphate group to a protein. The three main amino acids which can be phosphorylated are Serine (S), Threonine (T), and Tyrosine (Y).

Service Name	Deliverables					
	Phospho Peptide Synthesis (up to 15aa, HPLC >90%), Conjugation	Non-Phospho Peptide Synthesis (up to 15aa)	Pre-immune Serum	Serum	Affinity-Purified Antibody	ELISA Report
PAb-RAB2P	5 mg	NIL	Each rabbit 5mL (total 2 x 5mL)	Each rabbit: 25mL from 3 Bleeds (Total 2 x 3 x 25mL)	NIL	Each peptide on Bleed 1
PAb-RAB2PN		5 mg		2 x 25mL from Bleed 1, 2 x 25mL from Bleed 2, and 2 x 12.5mL from Bleed 3	From 25mL of Bleed 3 (12.5mL from each rabbit purified separately through non-phospho column firstly, followed by phosphor column)	
PAb-RAB3PN						
PAb-RAB4PN						



Purchase with confidence!

Two/ Four Rabbits Guaranteed PAb Packages

If any of the guarantees associated with your project fail, we will provide a full refund or start a new project at no cost. Receive a full refund should the project fail a second time.

Product No.	Service Guarantees				
	ELISA Guarantee	Affinity Purification Guarantee	Protein A Purification Guarantee	Western Blot Guarantee	Satisfaction Guarantee
PAb-PRO1 Immunogen provided by researcher, Immunization of 2 rabbits.	1:50,000 guaranteed	2 mg of antigen specific antibody	50mg of purified antibody	Positive band in one of the tissue lysates screened – 6 lysates	Start a new project at no cost and provide a full refund should the project fail a second time
PAb-PRO2 Immunogen provided by researcher, Immunization of 2 rabbits, 50mg of purified antibody (12.5mL serum / rabbit from Bleed 3).					
PAb-GOLD1A 1 peptide synthesis (up to 18 aa), Immunization of 2 rabbits, purified antibody (12.5mL serum / rabbit from Bleed 3).					
PAb-GOLD1B 1 peptide synthesis (up to 18 aa), Immunization of 2 rabbits, purified antibody (12.5mL serum / rabbit from Bleed 3).					
PAb-GOLD2A 2 peptides synthesis (up to 18 aa), Immunization of 2 rabbits/ peptide, purified antibody (10mL serum / rabbit from Bleed 3).					
PAb-GOLD2B 2 peptides synthesis (up to 18 aa), Immunization of 2 rabbits/ peptide, purified antibody (10mL serum / rabbit from Bleed 3).					
				Positive band in one of the tissue lysates screened – 3 lysates	Full refund if project failed.

Two Rabbits with Cocktail Peptides - PAb Packages

Cocktail peptide derived from antigens of different target proteins identified to cover different population subsets. Applications include cancer vaccine studies, treatment of multiple myeloma etc. We offer four peptide cocktail antibody production packages, each providing a minimum of four antibodies against your protein of interest.

Service Name	Deliverables				
	Peptide Synthesis (up to 15aa, > 70% Purity), Conjugation	Pre-immune Serum	Serum	Affinity-Purified Antibody	ELISA Report
PAb-RAB2PC2	2 peptides (5mg each)	Each rabbit 5mL (total 2 x 5mL)	Each rabbit: 25mL from 3 Bleeds (Total 2 x 3 x 25mL)	NIL	Each peptide on Bleed 1
PAb-RAB3PC2			3 peptides (5mg each)	2 x 25mL from Bleed 1, 2 x 25mL from Bleed 2, and 2 x 12.5mL from Bleed 3	
PAb-RAB2PC3	2 x 25mL from Bleed 1, 2 x 25mL from Bleed 2, and 2 x 12.5mL from Bleed 3	Each rabbit: 25mL from 3 Bleeds (Total 2 x 3 x 25mL)			
PAb-RAB3PC3				From 25mL of Bleed 3 (12.5mL from each rabbit purified separately through three peptide columns)	

Two Chickens Standard PAb Packages

Standard 8-week production schedule which yields up to 21 yolks per chicken.

Service Name	Deliverables				
	Peptide Synthesis (up to 15aa, HPLC >70%), Conjugation	Pre-immune Serum	Serum / Yolk	Affinity-Purified Antibody	ELISA Report
PAb 8-CHI1	Immunogen provided by researcher 5 mg	Each chicken 1mL	Yes	NIL	Each chicken on Bleed/ Egg 1
PAb 8-CHI2					
PAb 8-CHI3				Each chicken: 12.5mL on Collection 3	
PAb 8-CHI4				Total 200mL	

One Boer Goat Standard PAb Packages

Standard 8-week production schedule which yields approximately 750-900mL serum.

Service Name	Deliverables				
	Peptide Synthesis (up to 15aa, HPLC >70%), Conjugation	Pre-immune Serum	Serum	Affinity-Purified Antibody	ELISA Report
PAb 8-GOA1	Immunogen provided by researcher 5 mg	25mL	200 to 300mL from each bleed. Total of 3 bleeds.	NIL	Bleed 1
PAb 8-GOA2					
PAb 8-GOA3			Bleed 1: 200 to 300mL Bleed 2: 200 to 300mL Bleed 3: 175 to 275mL	25mL on Bleed 3	
PAb 8-GOA4			Bleed 1: 175 to 200mL Bleed 2: 175 to 200mL Bleed 3: 175 to 200mL	Total 200mL	

Upon completion, several options are available for the extension or continuation of the antibody project. You may also opt for exsanguination or termination of the host animal. Please contact our Product Specialist for more information.