



CUSTOM POLYCLONAL Antibody Development

Offering THE BEST PERSONALIZED CUSTOMIZATION According To Your Needs



Vivantis offers 3 types of host species (rabbit, goat and chicken) that you can choose from to begin a polyclonal antibody development project. With our reliable expertise and flexibility, we strive to support your requirements to ensure a successful project with satisfactory outcome. Customers can choose either to supply the peptide or full-length protein if readily available.

Peptide Route

This package is designed for customers who have the peptide sequence and require us to begin from synthesizing it before immunization process. If the peptide can be supplied, Step 1 and 2 shall be skipped. For more details, please arrange a detailed consultation with us to determine the best package that suits your needs.

No.	Protocol details	Quality Control	Timeline	Notes
1	Peptide synthesis according to the sequence provided by customer	1. Mass spectrometry to ensure molecular weight is correct 2. HPLC to ensure purity greater than 85% 3. 8mg for each peptide	2 weeks	1. Typical length for a peptide is approximately 15 amino acids 2. Please notify if there is any special modification required
2	Protein carrier coupling (KLH/BSA)	No exposure to mercaptoethanol	2 days	
3	Antiserum preparation	1. ELISA titer for serum greater than 1:20,000 2. Serum volume is greater than 50ml per rabbit	10 weeks	Preimmune serum will be provided as control
4	Protein A purified antiserum	>50mg total IgG	3 days	
5	Antigen affinity purification (serum)	1. Purified serum 40ml 2. Antibody amount >3mg	3 days	ELISA titer for antiserum greater than 1:20,000

Note

- Please notify if there is any modification required for peptide synthesis.
- Detailed consultation is required for phosphorylated antibodies, methylated or acetylated antibodies or special structures.

Requirements for customer-supplied peptide

- Peptide concentration more than 1mg/ml
- Peptide purity greater than 80%
- Peptide can be stored in leak-proof tube and ziplock bag. Deliver by using a Styrofoam box with ice packs is recommended

Deliverables upon completion

- Preimmune serum (>50ml each rabbit)
- Antigen affinity purified antibody (>3mg)
- Test records: ELISA result



Whole Protein Route

This package is designed for customers who can supply us with the whole protein. Polyclonal antibodies can be produced against soluble and non-soluble recombinant proteins, fusion proteins and gel strips. Please arrange a detailed consultation with us to decide the best package that suits your needs.

No.	Protocol details	Quality Control	Timeline	Notes
1	Antiserum preparation	1. ELISA titer for serum greater than 1:20,000 2. Serum volume is greater than 50ml per rabbit	10 weeks	1. Preimmune serum will be provided as control.
2	Protein A purified antiserum	>50mg total IgG	3 days	

Deliverables upon completion

1. Preimmune serum (>50ml each rabbit)
2. Protein A purified antiserum (>50mg)

Requirements for customer-supplied full-length protein:

- Whole protein concentration greater than 1mg/ml is preferable

Peptide Synthesis Service

Vivantis Technologies offers state of the art peptide synthesis technology with numerous platforms for various kinds of peptide, purity level, low to bulk quantities, excellent quality control and affordable.

What you get upon completion

- Lyophilized form of peptide
- Certificate of Analysis with HPLC and MS analyses

Advantages

- High success rate and quality control
- Extensive range of peptide grades, quantity, formats and modifications according to customers' needs
- Competitive price
- Turnaround 3-4 weeks (subject to peptide complexity and length)



Oligo Synthesis

No.	Type of Oligo Purification	Concentration		Sequence base
		nmole	OD	
1	HAP Purification	25	2	11-59 bases
		100	5	
		200	10	
2	PAGE Purification	100	2	11-59 bases
		200	5	
		400	10	
3	HPLC Purification	100	2	5-59 bases
		200	5	
		400	10	
4	DeoxyInosine with PAGE Purification	100	2	11-59 bases
		200	5	
		400	10	
5	DeoxyInosine with HPLC Purification	100	2	5-59 bases
		200	5	
		400	10	
6	DeoxyUridine with PAGE Purification	100	2	11-59 bases
		200	5	
		400	10	
7	DeoxyUridine with HPLC Purification	100	2	5-59 bases
		200	5	
		400	10	
8	Probe synthesis with different fluorophores with HPLC Purification *FAM, HEX, Cy3, JOE, TAMRA, ROX etc.	100	2	-
		200	5	
		400	10	

* Lead time 3-4 weeks

