

Custom Polyclonal Antibody Service

A reliable immunological assay demands reliable antibodies and antibody services. ShineGene provides a one-stop solution to all our customers' antibody needs. Our **custom antibody services** include recombinant protein expression, peptide design and synthesis, polyclonal antibody production, express polyclonal antibody production, affinity purification, conjugation, fragmentation, and immunoassay development.

Phase 1. Peptide synthesis

- Assistance on designing peptide with respect to protein homology, antigenicity, hydrophilicity, and synthetic suitability. Free to design antigen.
- Custom Fmoc Peptide synthesis up to 30 amino acids (10 mg). 4 mg of free peptide will be delivered to the customer together with the antibody.
- A cysteine will be automatically added to the C-terminus or N-terminus of the peptide, and conjugated to KLH or BSA.
- Peptide purity is >80%.

Time: 2~3 weeks

Price: around EUR15.00 for each amino acid residue

(reference to our website: <http://www.synthesisgene.com/peptidesynthesis.html>)

Phase 2. Peptide conjugation to KLH or BSA

- Conjugation of 5 mg peptide to KLH or BSA using terminal Cysteine.

Time: 3 days

Price: around EUR110.00

Phase 3. Immunization and anti-sera production in rabbit

- Conjugated peptides are used to immunize rabbits.
- Ten-week protocol to produce antibodies in 2 SPF rabbits of each peptide.
- ELISA tests until the titer reaches 1:4,000.
- 1ml of pre-immune serum and 50~80ml of final immune bleeds.
- Final product ELISA titer > 1:8000

Time: 10 weeks

Price: EUR330.00

Phase 4. Antibody purification (optional)

- Purification of the antibody by protein A or antigen-affinity resin.
- Antibody will be dialyzed against PBS after purification if required.

Time: 3 days

Price: EUR120.00 for protein A purification

EUR240.00 for antigen-affinity purification

Total Time: around 14~16 weeks



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