

mAbs, Genes and rProteins To Meet Your Needs



Why choose APexpress Lab for your biopharma project?

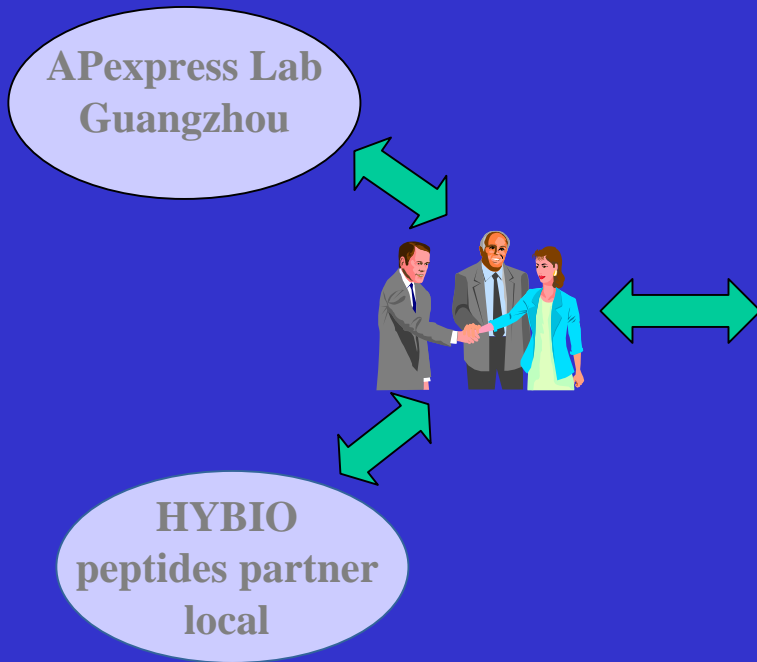
- Under \$2000 budget for custom mouse mAbs
- Just 8 weeks from antigen delivery to purified mAbs
- Under \$6000 budget for custom stable cell lines
- Recombinant proteins up to 100mgs timely
- Gene synthesis –starts at \$390 for 1k bp
- Unique cDNA bank available

Mouse Monoclonal Antibody Custom Service At \$1999

- Immune 5 Balb/c mice, titer detection
- Subclone for 1 stable hybridoma
- Expansion 1 hybridoma and cryopreserve 5 vials
- 1 Hybridoma inject 2 mice for ascites preparation
- Protein A purification for 5ml ascites



Antigen Preparation



- Peptide design
- Peptide synthesis
- Peptide conjugation (KLH, BSA, OVA)
- Protein expression and purification
- (HIV, HCV, HBV, HPV and HEV)Antigens in stock from a local lab

Catalog Mouse mAbs

- High Performance mAbs To Drugs of Abuse

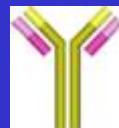
- \$999/5mg

- High Performance mAbs To Anti-cancer Drugs

- \$1250/5mg

- High Performance mAbs To Anti-HIV Drugs

- \$1250/5mg

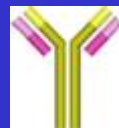


Modifications of mAbs

- Biotin Conjugation
- Enzyme-labeling
- HRP Conjugation
- Fluorescent Dye Conjugation
- FITC-Conjugation
- Fab & F(ab')₂ Fragmentation

Custom Gene Synthesis

- **Design and synthesize all primers**
- **Fragment Synthesis:**
 - Ready to be cloned
 - High GC no problem
 - Guaranteed enough for at least 10 independent subcloning
- **Use proprietary protocols to synthetically construct the entire gene**
- **Clone the gene into a known vector**
- **Verify the sequence of genes by sequencing both strands**
- **Deliver synthesized gene and 5ug of purified plasmid**
- **Shortest Turnaround Time**



Application of Gene Synthesis

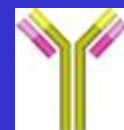
- Create unmutated gene variants
- Optimize single & multi host codon
- Construct complex cDNA bank
- Produce recombinant antibody
- Enhance heterogenous protein expression

Useful Stable Cell Lines

- Assay development
- Gene function analysis
- Target discovery & validation
- High-throughput screening tools
- Providing reliable therapeutic and diagnostic proteins
- Physiological, pharmacological and toxicological studies

Stable Cell Line Development

- High yield stable mammalian cell lines
- Mammalian cell hosts:
CHO, HEK-293, BHK-21, NS0 & SP2/0
- After 20 generations, still as good as fresh one
- Express high amount of target proteins
either secreted or intracellular
- High productivity clones approximately 12 weeks



Recombinant Proteins

- **Protein Expression Focus**
 - Transfection of mammalian cells
 - Determination of rprotein by Western blot or ELISA
- **Protein Purification**
 - His-, Flag-, HA-tagged recombinant proteins
 - GST, MBP fusion proteins
 - Endotoxin removal (< 1 EU/mg)
- **Protein Structure-Function Studies**

Biopharma Outsourcing At Guangzhou-China And Save \$\$\$

