

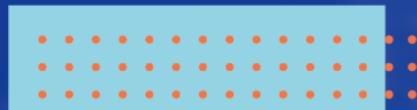


# Tsingke Protein & Antibody Services

From gene synthesis to purified proteins and antibodies  
— accelerating research and therapeutic development

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- Recombinant Protein Expression Services
- Recombinant Antibody Expression Services
- Antibody Discovery Services
- Custom Antibody Services
- Other Services



# Protein & Antibody Services

## 1. Recombinant Protein Expression Services

## 2. Recombinant Antibody Expression Services

## 3. Antibody Discovery Services

- Hybridoma Sequencing
- Single B Cell Screening
- Phage Display Screening

## 4. Custom Antibody Services

- Polyclonal Antibody Production
- Monoclonal Antibody Production
- Antibody Labeling & Purification

## 5. Other Services

- Peptide Synthesis & Modifications
- Western Blot & Immunohistochemistry Services
- Protein Analysis & Proteomics Mass Spectrometry Platforms



# Custom Antibody Services

## Polyclonal Antibody (pAb) Production

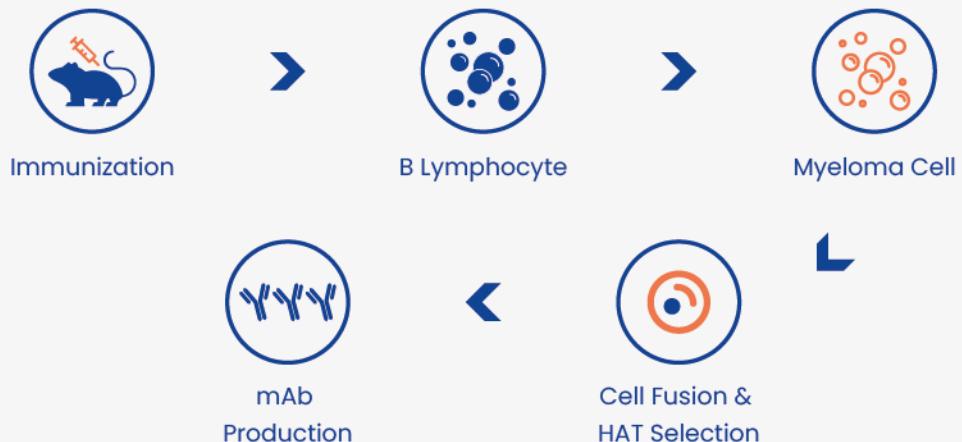
- Species: Rabbit / Sheep / Mouse / Rat
- Antigen: Customer-provided or synthesized peptide/protein
- Options: Peptide modifications (phospho-, methyl-, acetyl-) and carrier conjugation (KLH, BSA, OVA)

## Monoclonal Antibody (mAb) Production

- Platform: Mouse hybridoma-based
- Antigen: Customer-provided or synthesized peptide/protein
- Options: Hybridoma sequencing, recombinant antibody expression

## Antibody Labeling & Purification

- Labels: HRP, Biotin, FITC, iFluor
- Purification: Protein A/G or antigen-affinity purification



## Hybridoma-Based mAb Production

## Antibody Discovery Services

## Hybridoma Sequencing

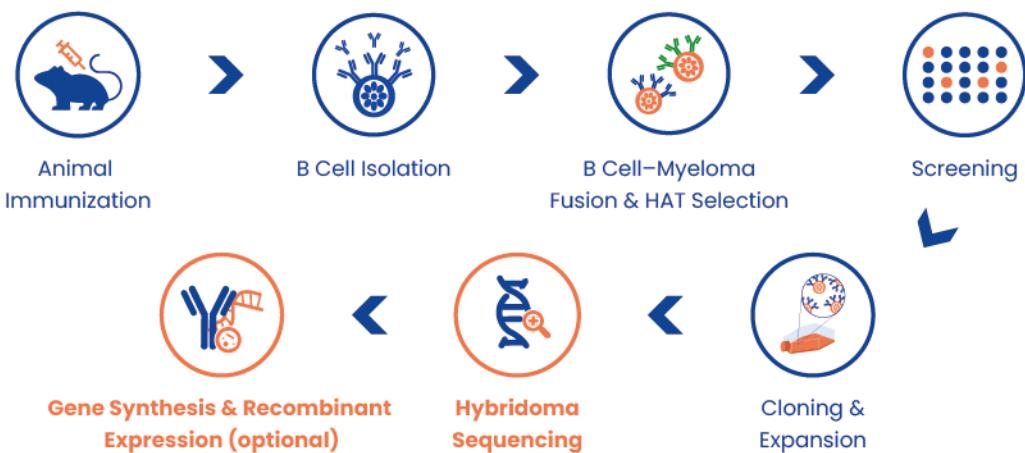
- 5' RACE + Multiplex Nested PCR for full-length heavy/light chain sequencing, verified by Sanger sequencing or high-throughput NGS
- 100% sequence accuracy – guaranteed
- Turnaround in as fast as 3 days
- De novo gene synthesis and recombinant antibody expression available

## Single B Cell Screening

- FACS & Microfluidics (Droplets, Micropores)
- Preserves native heavy/light chain pairing
- High-throughput for rapid discovery

## Phage Display Screening

- Human scFv / Fab / sdFv, Camel & Alpaca VHH
- High-diversity naïve libraries & tailored immune libraries
- Screen pre-built libraries in as fast as 2 weeks



## Hybridoma Workflow for Antibody Discovery

# Recombinant Protein/Antibody Expression Services

## Recombinant Protein Expression

- From gene synthesis, protein design & structure analysis, expression, to purification
- Six protein expression systems
- Gram-level production
- As fast as 2 week

## Recombinant Antibody Expression

- Full-length mAb, VHH-His, VHH-Fc, Fab, scFv, bispecific antibodies
- SDS-PAGE&SEC-HPLC >95% | Endotoxin level<1 EU/mg
- Gram-level production
- As fast as 1 week



Escherichia coli



Bacillus subtilis



Pichia dushanensis



Mammalian



Baculovirus-insect



Cell-free

## Six Protein Expression Systems



Resource Center



Contact us

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