

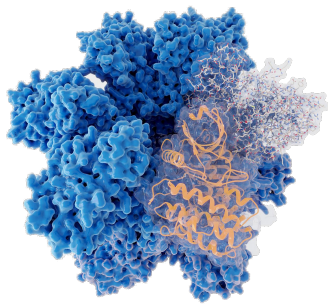
Antibody Customization Service

The background of the slide features a large, vibrant splash of orange and yellow ink against a dark blue background. At the top of the splash, there is a detailed, multi-colored molecular model of an antibody, showing its complex Y-shaped structure with various colored spheres representing atoms or functional groups. The overall aesthetic is scientific and dynamic.

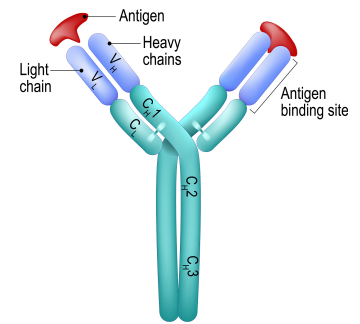
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Antibody customized platform

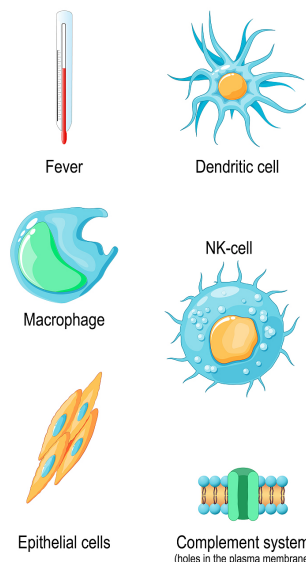


IMMUNOGLOBULIN

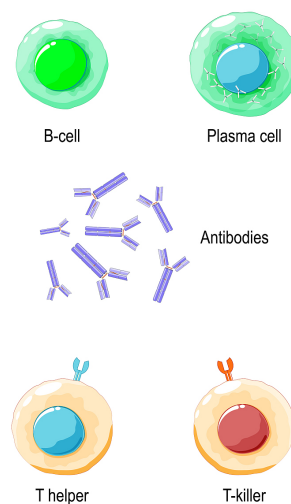


The antibody platform was built by senior antibody experts, whose team members have extensive experience in antigen design, animal immunity, cell fusion, and downstream quality control, and can customize various types of antibodies, including multi-species polyclonal antibodies, monoclonal antibodies, modified antibodies, paired antibodies, as well as IVD antibodies and anti-idiotypic antibodies. We can provide one-stop services from gene synthesis to antibody preparation and antibody application testing. We also provide downstream services such as antibody mass production, antibody pairing, antibody labeling, subtype identification, and kit development.

Innate immunity

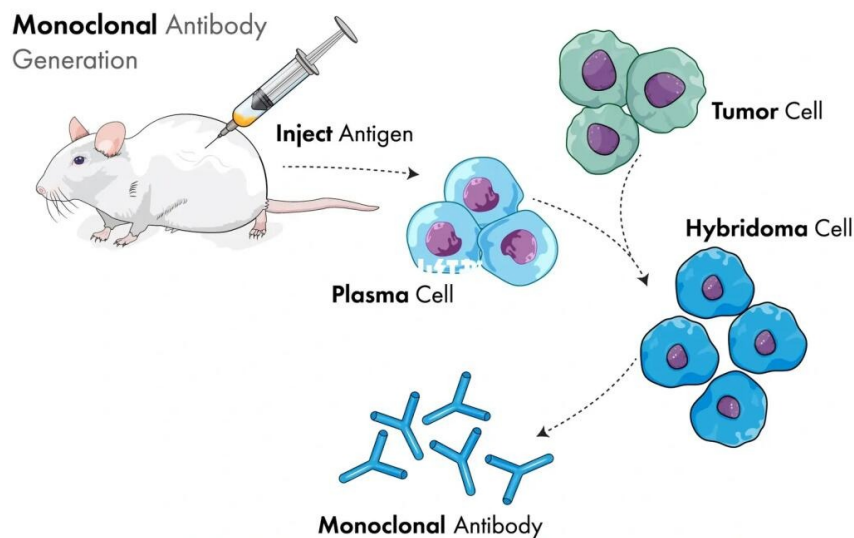


Adaptive immunity



Monoclonal antibody customization

Monoclonal antibodies are a class of antibodies produced by hybridoma cells through cell fusion technology that can bind to specific epitopes of antigens. Monoclonal antibodies are widely used in biological research, in vitro diagnosis and drug development because of their batch stability, high specificity and easy large-scale preparation. According to the different needs of customers, we customize different solutions according to the type, quantity and purity of their antigens; 100% purity of the cell line was ensured by HAT screening and multiple subclonal screening. Through antibody affinity purification, we ensure high antibody purity, whether you use it downstream for diagnostic testing or drug research to ensure its effectiveness.



Service advantage

1. According to different kinds of antigens to develop different protocols, and truly produce high-quality antibodies according to your needs.
2. With richly experienced team members and multiple monoclonal antibody platforms, can develop effective experimental schemes for downstream applications.
3. Upstream and downstream integration platform, from genes to hybridoma cell lines, through strict quality inspection and one-stop completion.
4. High cost-effective service, to provide the best quality service at the most competitive price, to accelerate your project.

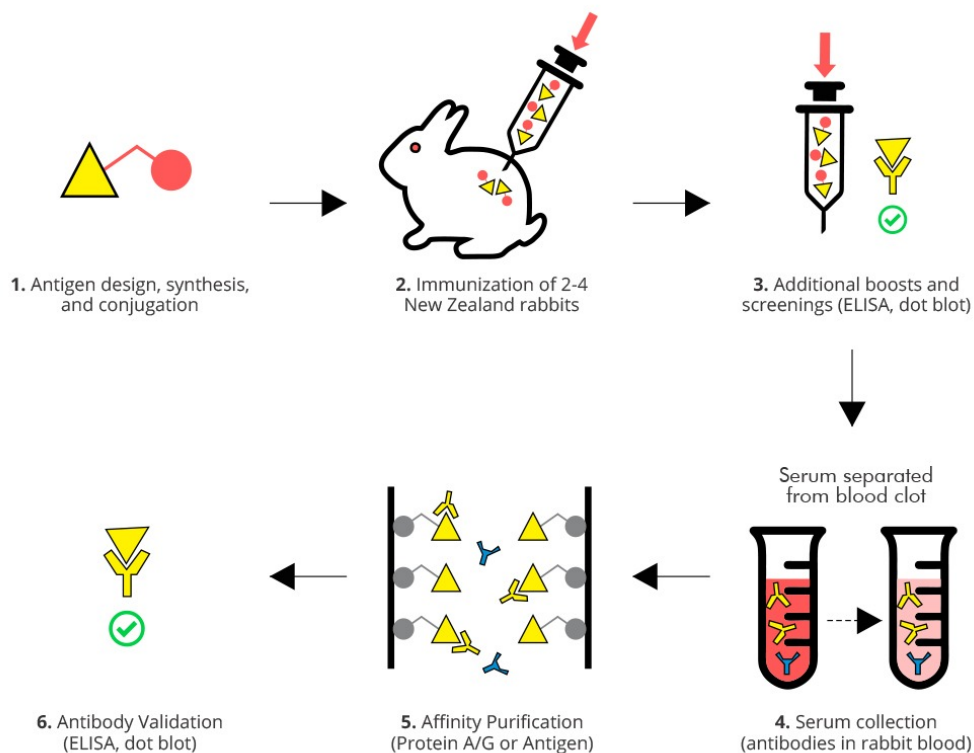


Solution

Service steps	Main content	Schedule
Antigen design and preparation	Recombinant protein production and peptide synthesis and coupling	Week 1-3
First immunization	Subcutaneous multipoint immunization (Freund's complete adjuvant)	Week 4
First time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 7
Second time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 9
Blood test	50μL serum was collected from each mouse and the titer was detected by ELISA	Week 10
Third time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 11
Blood test	50μL serum was collected from each mouse and the titer was detected by ELISA	Week 12
Impulse immunization	Abdominal or venous immunization	Week 12
Cell fusion	Mouse with the best immune effect were selected for cell fusion	Week 13
Cell screening	The positive cell lines were screened by ELISA	Week 14
Ascites preparation and purification	Select the best cell line to prepare high-efficiency, high-specific ascites	Week 17
Quality Appraisal	According to the customer's downstream application, the corresponding quality inspection	Week 31
Subtype identification	All positive cell lines and purified antibodies were subtyped	Week 22
Remarks	The host: BLAB/C mouse Antigen requirements: concentration > 1mg/ml, purity > 85%, and antigen solution does not contain organic solvents, trimethylol aminomethane, amino acids, etc.	

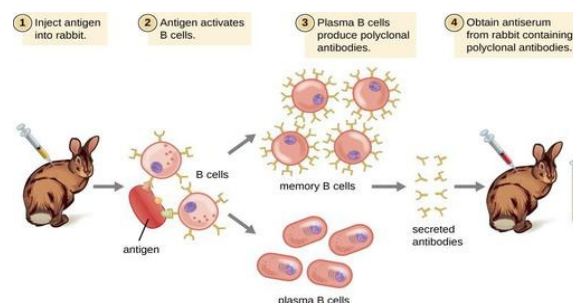
Polyclonal antibody customization

Polyclonal antibody preparation team has more than ten years of antibody preparation experience, and understands the key links of polyclonal antibody preparation. We can customize and develop high-quality antibodies with multi-species, high affinity, high efficiency and high specificity for customers, including rabbit, mouse, rat, guinea pig, hamster, goat, chicken and other species. The titer of polyclonal antibody can reach more than 1:64,000. Whether it is recombinant proteins or peptides or viral particles, Reed Biotech can provide you with a complete solution from target design, antigen preparation to antibody production and antibody purification and quality testing to ensure that the prepared antibodies can be effectively applied to the project.

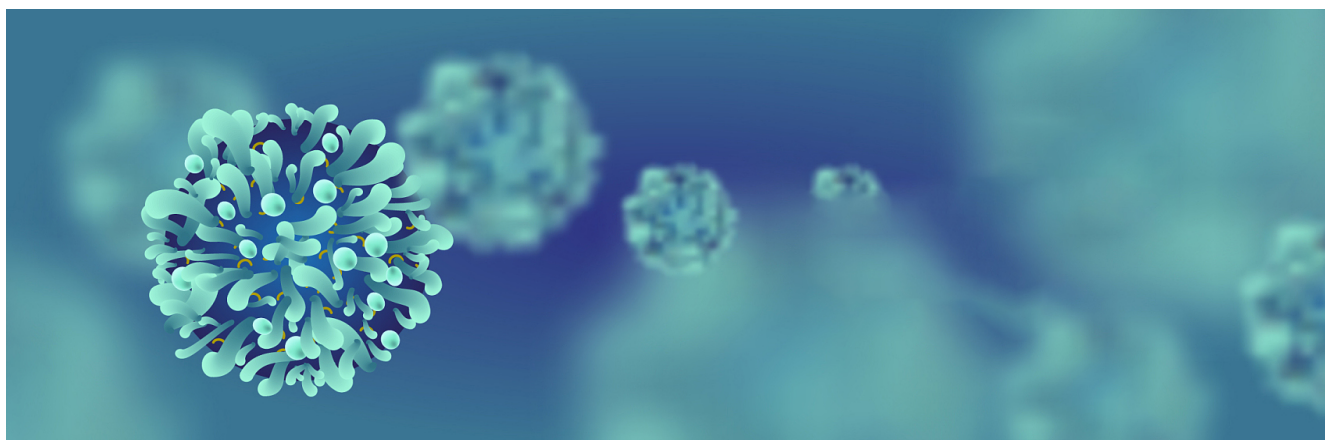




Service advantage



1. High quality antigen design, best antigen can be designed whether it is polypeptide or recombinant protein.
2. Perfect quality control platform, according to the downstream application of antibodies, select targeted quality control to ensure the effectiveness of antibodies.
3. Good production process, through continuous optimization of the process flow, effectively ensure the stability of the batch.



Solution

Service steps	Main content	Schedule
Antigen design and preparation	Recombinant protein production and peptide synthesis and coupling	Week 1-3
Negative serum collection	3-5ml of control serum was collected before immunization	Week 2-3
First immunization	Subcutaneous multipoint immunization (Freund's complete adjuvant)	Week 2-3
First time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 4-5
Second time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 6-7
Blood test	50μL serum was collected from each rabbit and the titer was detected by ELISA	Week 7-8
Third time booster of immunization	Subcutaneous multipoint immunization (Freund's incomplete adjuvant)	Week 9-10
Impulse immunization	Auricular vein immunization	Week 11-12
Final blood collection	Each rabbit collected 40-50ml of blood	Week 12-13
Antiserum purification	Choose protein A or antigen affinity purification according to customer requirements	Week 14-15
Project Delivery	Deliver antibodies and project production reports	Week 15-16
Remarks	The host: New Zealand white rabbit Antigen requirements: concentration > 1mg/ml, purity > 85%, and antigen solution does not contain organic solvents, trimethylol aminomethane, amino acids, etc.	

IVD antibody customization

As the core material of in vitro diagnostic reagent development, antibody plays a key role in the whole immunological analysis system. The quality of diagnostic antibody raw materials is mainly reflected in the specificity, batch stability, reaction sensitivity and linear range, and cannot be separated from the continuous optimization of its preparation process.



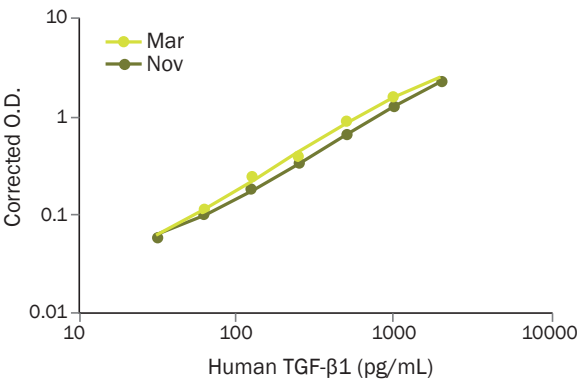
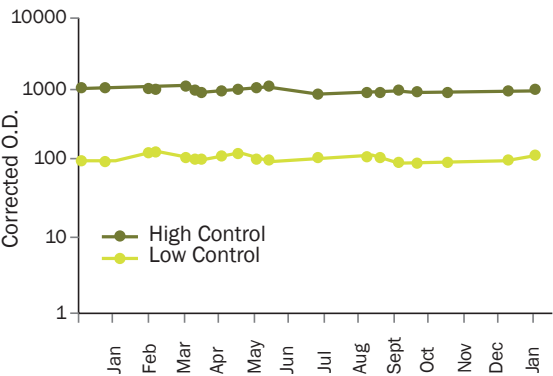
At present, domestic enterprises often face the problem of expensive imported raw materials, long supply cycle and unable to supply in large quantities, and some target raw materials have a delivery period of more than half a year, which seriously restricts the progress of enterprise product development. With mature antibody preparation platform and detection and evaluation system, Reed Biotech can customize all kinds of diagnostic antibody raw materials for you, especially the related raw materials of monoclonal antibodies. We can screen out high-quality antibody pairs through pairing, which can be used not only for the development of ELISA kits, Chemiluminescent reagents, but also for rapid diagnostic products such as immune turbidimetry.

Service advantage

- 1. The integrated antibody preparation platform can meet customized needs for preparing polyclonal antibodies or monoclonal antibody according to different forms of antigens.
- 2. Excellent antibody evaluation platform, through rigorous quality verification and precision cell screening, to ensure that you can meet the downstream development of antibody raw materials.
- 3. One-stop antibody application platform for your downstream applications with complementary services such as antibody pairing, antibody labeling, and large-scale antibody production.

Service items

- 1. Monoclonal antibody raw materials, hybridoma cell line development and mass production of antibodies.
- 2. Antibody pairing, developing monoclonal antibody pairs and matching antibodies of different species.
- 3. Polyclonal antibody raw materials, with thousands of rabbit polyclonal antibody production base.

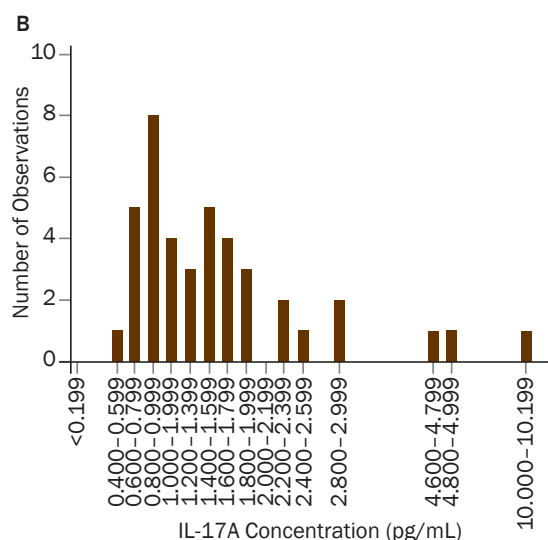
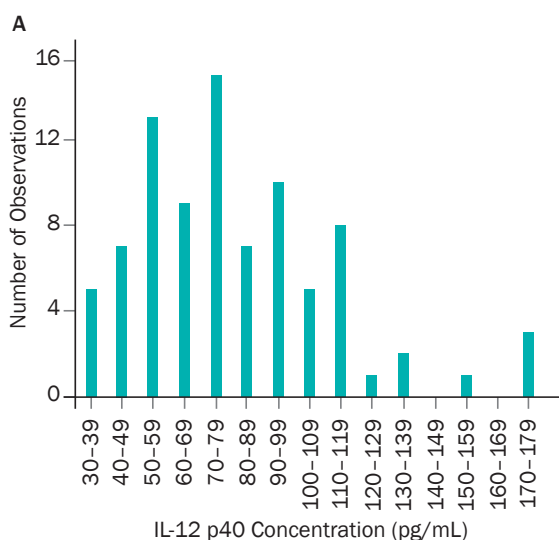


Kit integrated development

Whether in vitro diagnostics or drug development, immunoassay is widely used to detect and analyze blood, body fluids, and various biological samples. As the immune detection product development process is complicated and time-consuming, and there is a certain risk of development failure, it has brought some troubles to many life medicine research and development units and affected the development progress of the project. Reed Biotech has rich experience in kit development and excellent R&D team, it has unique advantages in antigen design, antigen production, antibody preparation and antibody pairing evaluation , and can provide customers with accurate, efficient and fast technical services.

Service advantage

1. With rich technical experience, R&D members have many years of kit development experience, such as ELISA, chemiluminescence and other kits.
2. Team members have developed a large number of scientific research kits and diagnostic kits, and have significant advantages in stability and sensitivity.
3. Upstream and downstream one-stop service, accurate grasp of each link, strict control of quality , and through a full range of after-sales support.



Service item

1. Scientific research kit, for scientific research customers, we can provide customized ELISA kit services.
2. Diagnostic kit, for industrial customers, can provide chemiluminescence, enzyme free kit and other customized services.
3. Drug analysis kit, especially for pharmaceutical research & development units, can provide drug research & development immunoassay, as well as antibody drug immunoassay kit customized services.

