

CHANGYU QuickAntibody Novel Adjuvant

Cat#	Product Description	Size	Lead time
CY0210041	5 weeks mouse monoclonal/polyclonal antibody quick adjuvant	1ml	2 weeks
CY0210042	3 weeks mouse monoclonal/polyclonal antibody quick adjuvant	1ml	2 weeks
CY0210043	2 weeks mouse polyclonal antibody quick adjuvant	1ml	2 weeks
CY0210045	8 weeks rabbit polyclonal antibody quick adjuvant	1ml	2 weeks

General Description

CHANGYU QuickAntibody is a proprietary novel adjuvant designed specifically for the preparation of monoclonal as well as polyclonal antibodies in mice. Compared with the conventional Freund's adjuvant, it has the unique features of fewer immunizations, less antigen dosage, quick antibody induction, higher antibody titers, higher antibody affinity, no destroy of natural antigen conformation, no epitope competition from other proteins, and easy to use.

User Guidelines

- CHANGYU QuickAntibody can achieve antigen-sparing effect through fewer immunizations (only two injections) and less antigen dosage per injection. Recommended antigen dosage is: (1) 5~50 μ g (5-50 μ g for mouse, 20-50 μ g for rabbit) per injection for low immunogenic antigens such as recombinant subunit proteins or peptide-carrier conjugates; (2) 1~10 μ g (1-5 μ g for mouse, 5-10 μ g for rabbit) per injection for high immunogenic antigens such as inactivated viruses or recombinant virus-like particles.
- CHANGYU QuickAntibody can induce a quick immune response, generating high titers as well as high affinity of antibodies. Whatever used for monoclonal as well as polyclonal antibody preparation, it requires only two immunizations within 3 weeks, and high titers of antibodies with ELISA titers (Cutoff=0.1000) up to 1:10000~1:10000000 could be elicited in the fifth week.
- In contrast to Freund's adjuvant, CHANGYU QuickAntibody doesn't destroy natural antigen conformation, which facilitates the generation of monoclonal antibodies against conformational epitopes.
- In contrast to complete Freund's adjuvant, CHANGYU QuickAntibody doesn't have protein antigens, which eliminates the epitope competition from adjuvant-derived proteins.

5. In contrast to the tedious emulsification required by Freund's adjuvant, CHANGYU QuickAntibody is provided as a ready-to-use solution that can be easily mixed with any antigen before animal immunization.
6. In contrast to the tedious foot-pad or intra-spleen immunization usually used in monoclonal antibody protocols, CHANGYU QuickAntibody can be conveniently used through intra-muscular injection.
7. CHANGYU QuickAntibody is most useful in preparing murine polyclonal antibodies. In contrast to conventional rabbit polyclonal antibody preparation, which is usually provided by companies as customer-service, with CHANGYU QuickAntibody any laboratory can easily generate 1ml of high quality murine polyclonal antibodies within 5 weeks by simply immunizing 5 mice. (Note: 1ml of high quality murine polyclonal antibodies should fulfill most experimental requirements.)
8. CHANGYU QuickAntibody is shipped at ambient temperature and stored at 2-8°C (Do not freeze!).
The adjuvant is stable for up to 18 months at 2-8°C.

Product Name: QuickAntibody-Mouse5W

Cat No: CY0210041

Size: 1 ml

Intended use: standard generation of murine monoclonal and polyclonal antibodies (ELISA titers up to 1:10000~1:1000000) by two immunizations within 5 weeks.

Immunization Protocol

1. **Dilute the antigen with saline to 2-fold final concentration (50µl per injection).**
Note: Recommended antigen dosage is: (1) 5~20µg per injection for low immunogenic antigens such as recombinant subunit proteins or 20~50µg for peptide-carrier conjugates; (2) 1~5µg per injection for high immunogenic antigens such as inactivated viruses or recombinant virus-like particles.
2. **Mix the adjuvant by vortexing, sterilely remove the required volume (50µl per injection), and mix with the antigen at 1:1 ratio (v/v) as quick as possible.**
Note: It is normal to see precipitation in the adjuvant.
3. **Inject 100µl of the antigen/adjuvant mixture into a quadriceps muscle of each mouse.**
Note: It is normal to see precipitation in the antigen/adjuvant mixture. Please mix well before drawing into syringe and inject as quick as possible after drawing into syringe.
4. **Boost animals on day 21 post-priming.**
Note: For boosting, please follow steps 1-3 of the priming protocol, using freshly prepared antigen/adjuvant mixture.
5. **Bleed from tail tips on day 35 post-priming and measure the antibody titers by ELISA. ELISA titers should be in the range of 1:10000~1:1000000. After that the whole serum can be collected or proceed to antigen boost and cell fusion according**

to conventional hybridoma protocols.

Product Name: QuickAntibody-Mouse3W

Cat No: CY0210042

Size: 1 ml

Intended use: rapid generation of murine monoclonal and polyclonal antibodies (ELISA titers up to 1:10000~1:100000 or higher) by two immunizations within 3 weeks.

Immunization Protocol:

1. Dilute the antigen with saline to 2-fold final concentration (50 μ l per injection).

Note: Recommended antigen dosage is: (1) 5~20 μ g per injection for low immunogenic antigens such as recombinant subunit proteins or 20~50 μ g for peptide-carrier conjugates; (2) 1~5 μ g per injection for high immunogenic antigens such as inactivated viruses or recombinant virus-like particles.

2. Mix the adjuvant by vortexing, sterilely remove the required volume (50 μ l per injection), and mix with the antigen at 1:1 ratio (v/v) as quick as possible.

Note: It is normal to see precipitation in the adjuvant.

3. Inject 100 μ l of the antigen/adjuvant mixture into a quadriceps muscle of each mouse.

Note: It is normal to see precipitation in the antigen/adjuvant mixture. Please mix well before drawing into syringe and inject as quick as possible after drawing into syringe.

4. Boost animals on day 14 post-priming.

Note: For boosting, please follow steps 1-3 of the priming protocol, using freshly prepared antigen/adjuvant mixture.

5. Bleed from tail tips on day 21 post-priming and measure the antibody titers by ELISA. ELISA titers should be in the range of 1:10000~1:100000. After that the whole serum can be collected or proceed to antigen boost and cell fusion according to conventional hybridoma protocols.

Product Name: QuickAntibody-Mouse2W

Cat No: CY0210043

Size: 1 ml

Intended use: rapid generation of murine polyclonal antibodies (ELISA titers up to 1:1000~1:10000 or higher) by two injections within 2 weeks.

Immunization Protocol

1. Dilute the antigen with saline to 2-fold final concentration (50 μ l per injection).

Note: Recommended antigen dosage is: (1) 5~20 μ g per injection for low immunogenic antigens such as recombinant subunit proteins or 20~50 μ g for peptide-carrier conjugates; (2) 1~5 μ g per injection for high immunogenic antigens such as inactivated viruses or recombinant virus-like particles.

2. Mix the adjuvant by vortexing, sterilely remove the required volume (50 μ l per

injection), and mix with the antigen at 1:1 ratio (v/v) as quick as possible.

Note: It is normal to see precipitation in the adjuvant.

3. Inject 100 μ l of the antigen/adjuvant mixture into quadriceps muscles of both hind legs.

Note: It is normal to see precipitation in the antigen/adjuvant mixture. Please mix well before drawing into syringe and inject as quick as possible after drawing into syringe.

4. Bleed from tail tips on day 14 post-priming and measure the antibody titers by ELISA. ELISA titers should be in the range of 1:1000~1:10000. After that the whole serum can be collected.

Product Name: QuickAntibody-Rabbit8W

Cat No: CY0210045

Size: 1 ml

Intended use: rapid generation of rabbit polyclonal antibodies (ELISA titers up to 1:10000~1:1000000 or higher) by 3 injections within 8 weeks.

Immunization Protocol

1. Dilute the antigen with saline to 2-fold final concentration (100 μ l per injection).

Note: Recommended antigen dosage is: (1) 20~50 μ g per injection for low immunogenic antigens such as recombinant subunit proteins; (2) 5~10 μ g per injection for high immunogenic antigens such as inactivated viruses or recombinant virus-like particles.

2. Mix the adjuvant by vortexing, sterilely remove the required volume (100 μ l per injection), and mix with the antigen at 1:1 ratio (v/v) as quick as possible.

Note: It is normal to see precipitation in the adjuvant.

3. Inject 200 μ l of the antigen/adjuvant mixture into quadriceps muscles of both hind legs.

Note: It is normal to see precipitation in the antigen/adjuvant mixture. Please mix well before drawing into syringe and inject as quick as possible after drawing into syringe.

4. Boost animals on day 21 and day 42 post-priming respectively.

Note: For boosting, please follow steps 1-3 of the priming protocol, using freshly prepared antigen/adjuvant mixture.

5. Bleed on day 52-56 post-priming and measure the antibody titers by ELISA. ELISA titers should be in the range of 1:10000~1:1000000. After that the whole serum can be collected.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.