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v20230925

Antibody Sequencing and Recombinant Antibody Production Service

Risk-free Guaranteed Packages Available | Ask for Promotional or Volume Discounts

Biomatik has been proudly serving 10,000+ scientists since 2002. In addition to our catalog product, Biomatik has delivered 72,000+ custom-made products to our researchers worldwide. Please view our Google Review, Selected Citations, and 4,000+ publications citing our fine products at Google Scholar.

Antibody Sequencing Packages	Service Contents	Deliverables	Guarantee /EDT /U$
Package #1: Antibody sequencing + Recombinant antibody production + ELISA detection **Antibody type:** IgG **Species:** Human, Mouse, Rat **Customer to supply:** 1) 200ug antibody, 90% purity 2) 50ug antigen, 90% purity	1) Phase I: Antibody pre-experiment and sequence analysis 2) Phase II: Recombinant antibody production ELISA identification. 3) Phase III: Binding test by ELISA detection	**First set of deliverables:** COA of ELISA testing result. Recombinant antibody (≥1.0mg, 90%) **Second set of deliverables**: COA of antibody sequence. COA of recombinant antibody synthesis. COA of peptide coverage map. 4ug plasmid containing the gene insert	**Guarantee:** Risk-free. Free of charge if the project fails* **Estimated Time:** 8-10 weeks **List Price:** $13,200 *We guarantee the same titer of recombinant antibody and the template antibody detected by ELISA in the same order of magnitude. *If the project failure is due to antibody sample impurities (mixed with other antibodies, peptides, or proteins) or interfering agent a report will be provided, and a non-refundable charge of $3600.
Package #2: Antibody Sequencing Only **Antibody type:** IgG **Species:** Human, Mouse, Rat **Customer to supply:** 200ug antibody, 90% purity	1) Antibody pre-experiment and sequence analysis	COA of antibody sequence. COA of peptide coverage map.	**Guarantee:** Risk-free. Free of charge if the project fails* **Estimated Time:** 2-4 weeks **List Price:** $9,900 *If the project failure is due to antibody sample impurities (mixed with other antibodies, peptides, or proteins) or interfering agent a report will be provided, and a non-refundable charge of $3600.
Package #3: Antibody sequencing + Recombinant antibody production + ELISA detection **Antibody type:** IgG **Species:** All species except for human, mouse, and rat **Customer to supply:** 1) 200ug antibody, 90% purity 2) 50ug antigen, 90% purity	1) Phase I: Antibody pre-experiment and sequence analysis 2) Phase II: Recombinant antibody production ELISA identification. 3) Phase III: Binding test by ELISA detection	**First set of deliverables:** COA of ELISA testing result. Recombinant antibody (≥1.0mg, 90%) **Second set of deliverables**: COA of antibody sequence. COA of recombinant antibody synthesis. COA of peptide coverage map. 4ug plasmid containing the gene insert	**Guarantee:** Non-Risk-free. There is a non-refundable charge of $5400 if the project fails*. **Estimated Time:** 10-12 weeks **List Price:** $15,400 *We guarantee the same titer of recombinant antibody and the template antibody detected by ELISA in the same order of magnitude.

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Package #4: Antibody sequencing only **Antibody type:** IgG **Species:** All species except for human, mouse, and rat **Customer to supply:** 200ug antibody, 90% purity	1) Antibody pre-experiment and sequence analysis	COA of antibody sequence COA of peptide coverage map	**Guarantee:** Non-Risk-free. There is a non-refundable charge of $5400 if the project fails. **Estimated Time:** 2-4 weeks **List Price:** $12,100

Antibody Sequencing and Recombinant Protein Production Phases

- **Phase I:** Antibody pre-experiment and sequence analysis:
  - Determination of the molecular weight of antibodies in reduced, and non-reduced states after glycolysis by LC-MS
  - Detection of impurity protein distribution in antibody samples by SDS-PAGE
  - Determination of amino acid sequence of antibody by ultra-high resolution mass spectrometry
  - Software-aided sequence splicing
  - Accurate antibody sequence generation
  - Analysis of hypervariable region (CDR) and key amino acids

- **Phase II:** Recombinant antibody production
  - Gene synthesis
  - Expression Identification
  - Antibody screening
  - Expression and purification of antibody
  - QC report

- **Phase III:** Binding test by ELISA detection
  *See next page

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Binding Test by ELISA Detection

(Identification of antibody activity by ELISA)

1. Material and Equipment

Reagent 1: 10mM PBS PH7.4.
Reagent 2: 5% skimmed milk. Add 5g skimmed milk powder into 100ml of reagent 1. Stir until it is completely dissolved.
96-well micro plate, Micropipettor, 37 ℃ incubator, ELISA analyzer.

2. Operation Method

2.1 Coating antigen:

①Dilute the antigen to 2ug/ml with reagent 1, then add it into a 96-well microtiter plate (100ul/well). Set three wells for each test and placed them at 2-8 ℃ overnight.

2.2 Blocking ELISA plate:

①Clean the coated enzyme plate 3 times and then dry it. Avoid sample contamination between different detection wells during this process.
②Add reagent 2 at 200ul/ well and incubate at 37 ℃ for 2h.

2.3 Adding recombinant antibody:

①Dilute the antibody: According to the table below, dilute the two groups of antibodies (control antibody and recombinant antibody) with reagent 1 to the working concentration.
The working concentrations are 2, 1, 0.5, 0.25, 0.125, 0.0625, and 0.03125ug/ml.

Name of the sample	Concentration
Control	--mg/ml
Recombinant Antibody	--mg/ml

②After diluting, clean the sealing solution of the ELISA plate 3 times, and then dry it.
③Sample incubation: 100ul/well.
Negative control well: Add reagent 1, 100ul/well.
Incubate at 37 ℃ for 30 min.
④Washing: After incubation, put the ELISA plate into the plate washer machine 3 times, and pat the residual liquid on the plate dry.

2.4 Adding the secondary antibody

①The secondary antibody will be diluted with reagent 1 in the ratio of 1: 15000.
②Sample incubation: Add 100ul/well to the corresponding well and incubate it at 37 ℃ for 30min.

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③Washing: For 3 times, and then dry it.

2.5 Colour reaction:

Preparation of chromogenic solution: Take out solution A and B from 4 ℃ in advance and restore to room temperature, then mix them in equal volumes and place them away from light. Add the mixed colour developing solution into the microplate (50ul/well). After slight shaking, the samples will be incubated at 37 ℃ for 10 min.

2.6 Termination and reading:

Add the termination solution, 50ul/well into the microplate, and then read the value in the microplate reader.
Detection wavelength setting: The detection wavelength is 450nm and the reference wavelength is 630nm. The detection results will be exported to Excel.

3. Result Analysis

3.1 Sample layout in plate:

2	2	2	2	2	2
1	1	1	1	1	1
0.5	0.5	0.5	0.5	0.5	0.5
0.25	0.25	0.25	0.25	0.25	0.25
0.125	0.125	0.125	0.125	0.125	0.125
0.0625	0.0625	0.0625	0.0625	0.0625	0.0625
0.03125	0.03125	0.03125	0.03125	0.03125	0.03125
Negative	Negative	Negative	Negative	Negative	Negative
Control			Recombinant antibody		

3.2 Result