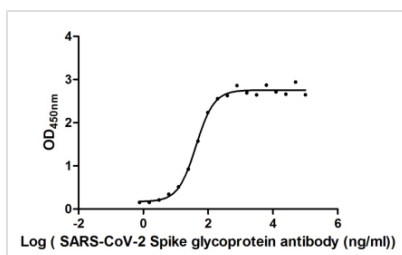




S Recombinant Monoclonal Antibody

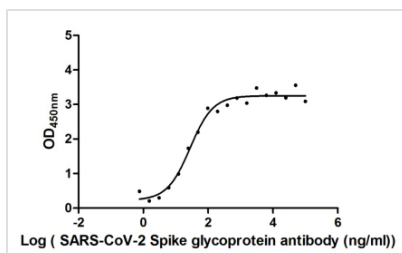
| | |
|----------------------------|--|
| Product Code | CSB-RA33245A1GMY |
| Abbreviation | S |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P0DTC2 |
| Immunogen | Recombinant Human Novel Coronavirus Spike glycoprotein (S) (16-685aa) (CSB-MP3324GMY) |
| Species Reactivity | Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV) |
| Tested Applications | ELISA, GICA, Neutralising; Recommended dilution: ELISA:1:10000-1:50000, GICA:1:500-1:5000, Neutralising:1:50-1:10000 |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4 |
| Purification Method | Affinity-chromatography |
| Isotype | Mouse scFv fusion with human IgG1 Fc |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV) |
| Research Area | Microbiology |
| Clone No. | H6 |

Image



The Binding Activity of SARS-CoV-2-S Antibody with SARS-CoV-2-S

Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S (CSB-MP3324GMY) at 2 µg/ml can bind SARS-CoV-2-S Antibody, the EC₅₀ is 42.83 ng/ml.

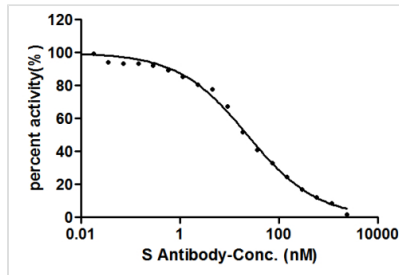


The Binding Activity of SARS-CoV-2-S Antibody with SARS-CoV-2-S1-RBD

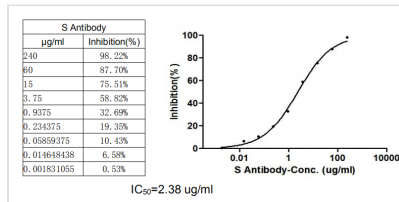
Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) at 2 µg/ml can bind SARS-CoV-2-S Antibody, the EC₅₀ is 29.51 ng/ml.



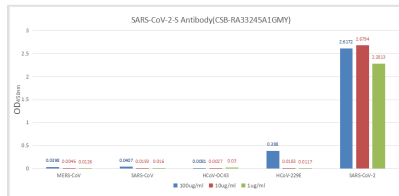
In the Colloidal Gold Immunochromatography Assay detection system, the background of antibody (CSB-RA33245A1GMY) is clean, the detection limit can be as low as 223.2ng/ml (15.625ng/0.07ml), and the sensitivity is very good.



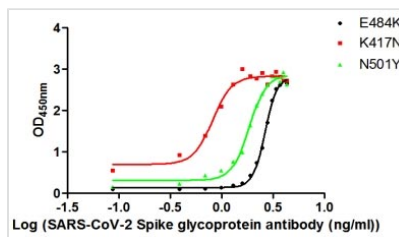
Binding signal of SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) and ACE2 protein-HRP conjugate (CSB-MP866317HU) was inhibited by S Antibody (CSB-RA33245A1GMY) with the IC_{50} is 23.32 nM.



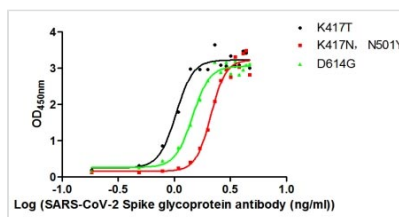
Binding signal of SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) and ACE2 protein-HRP conjugate (CSB-MP866317HU) was inhibited by S Antibody (CSB-RA33245A1GMY) with the IC_{50} is 2.38 μ g/ml.



ELISA: Immobilize various types of SARS proteins at concentration of 2 μ g/ml on solid substrate, then react with SARS-CoV-2-S Antibody at concentration of 100 μ g/ml, 10 μ g/ml and 1 μ g/ml. It shows the SARS-CoV-2-S Antibody (CSB-RA33245A1GMY) is specific for SARS-CoV-2-S1-RBD protein, without any cross-reactivity with MERS-CoV, SARS-CoV, HCoV-OC43 or HCoV-229E.



The Binding Activity of S protein with S Recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized S at 2 μ g/ml can bind S Recombinant Antibody, the EC_{50} of S Recombinant Antibody.



The Binding Activity of S protein with S Recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized S at 2 μ g/ml can bind S Recombinant Antibody, the EC_{50} of S Recombinant Antibody.

| Protein Code | Variants | EC_{50} (ng/mL) |
|---------------------|----------|-------------------|
| CSB-MP3324GMY1 (M8) | E484K | 371.0-487.5 |
| CSB-MP3324GMY1 (M7) | K417N | 4.522-5.950 |
| CSB-MP3324GMY1 (M6) | N501Y | 47.09-86.25 |

The Binding Activity of S protein with S Recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized



S at 2 $\mu\text{g/ml}$ can bind S Recombinant Antibody, the EC_{50} of S Recombinant Antibody. The Binding Activity of S protein with S Recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized S at 2 $\mu\text{g/ml}$ can bind S.

| Protein Code | Variants | EC_{50} (ng/mL) |
|----------------------|---------------------|--------------------------|
| CSB-MP3324GNY1 (M9) | K417T | 8.706-13.61 |
| CSB-MP3324GNY1 (M10) | K417N, E404K, N501Y | 97.92-169.6 |
| CSB-MP3324GNY1 (M1) | D614G | 23.19-34.02 |

The Binding Activity of S protein with S Recombinant Antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized S at 2 $\mu\text{g/ml}$ can bind S Recombinant Antibody, the EC_{50} of S Recombinant Antibody.

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.