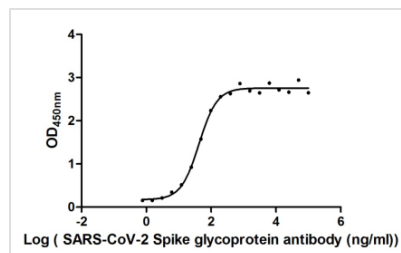




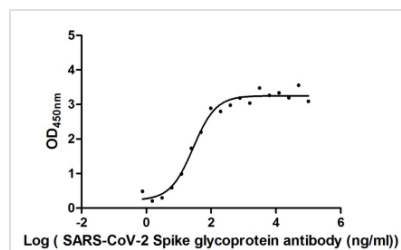
S Antibody

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
Accession NO.	H6

Image



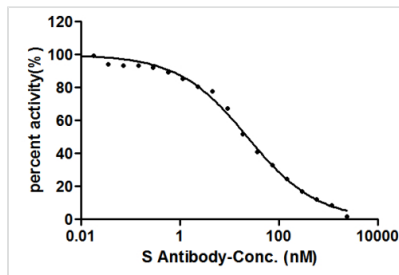
The Binding Activity of SARS-CoV-2-S Antibody with SARS-CoV-2-S Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S (CSB-MP3324GMY) at 2 µg/ml can bind SARS-CoV-2-S Antibody, the EC₅₀ is 42.83 ng/ml.



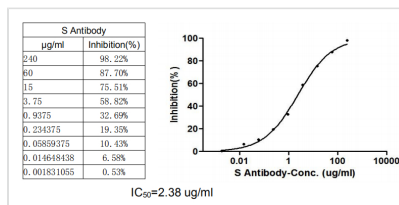
The Binding Activity of SARS-CoV-2-S Antibody with SARS-CoV-2-S1-RBD Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) at 2 µg/ml can bind SARS-CoV-2-S Antibody, the EC₅₀ is 29.51 ng/ml.



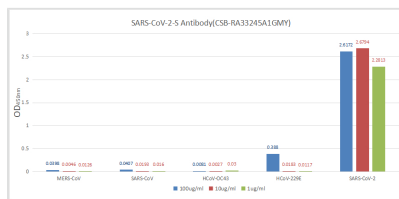
In the Colloidal Gold Immunochromatography Assay detection system, the background of antibody (CSB-RA33245A1GMY) is clean, the detection limit can be as low as 223.2ng/ml (15.625ng/0.07ml), and the sensitivity is very good.



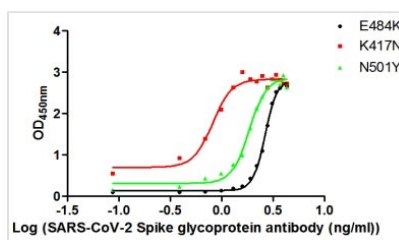
Binding signal of SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) and ACE2 protein-HRP conjugate (CSB-MP866317HU) was inhibited by S Antibody (CSB-RA33245A1GMY) with the IC₅₀ is 23.32 nM.



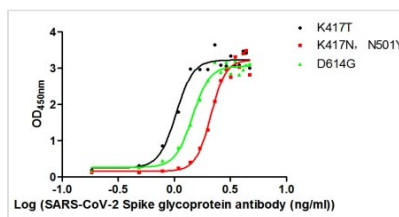
Binding signal of SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) and ACE2 protein-HRP conjugate (CSB-MP866317HU) was inhibited by S Antibody (CSB-RA33245A1GMY) with the IC₅₀ is 2.38 μg/ml.



ELISA: Immobilize various types of SARS proteins at concentration of 2μg/ml on solid substrate, then react with SARS-CoV-2-S Antibody at concentration of 100μg/ml, 10μg/ml and 1μg/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 μg/ml can bind S Recombinant Antibody, the EC₅₀ 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 μg/ml can bind S Recombinant Antibody, the EC₅₀ of S Recombinant Antibody.

Protein Code	Variants	EC50(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.

Protein Code	Variants	$\text{EC}_{50}(\text{ng/ml})$
CSB-MP33246MY1 (M9)	K417T	8.706-13.61
CSB-MP33246MY1 (M10)	K417N, E484K, N501Y	97.92-169.6
CSB-MP33246MY1 (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.

Description

Recombinant anti-SARS-CoV-2 spike Mouse ScFv is expressed from 293 cells (HEK293) with a human IgG1 Fc tag on C-terminal.