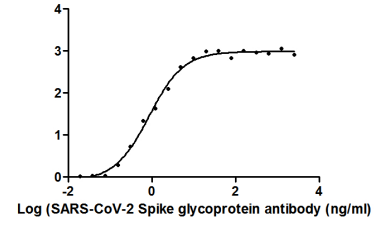
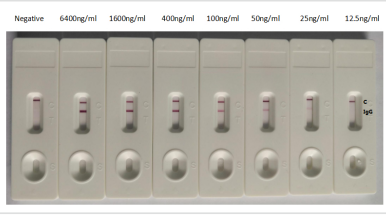
SARS-CoV-2 Spike RBD Nanobody

Product Code	CSB-RA33245A2GMY
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) (319-541aa) (CSB-YP3324GMY1 and CSB-MP3324GMY1b1)
Species Reactivity	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Tested Applications	ELISA, GICA, Neutralising; Recommended dilution: ELISA:1:10000-1:100000, GICA:1:10000-1:40000, Neutralising:1:100-1:10000
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	VHH fusion with human IgG1 Fc
Clonality	Monoclonal
Alias	S, S1, S1-RBD, Spike glycoprotein
Species	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Research Area	Microbiology
Gene Names	S
Accession NO.	A1

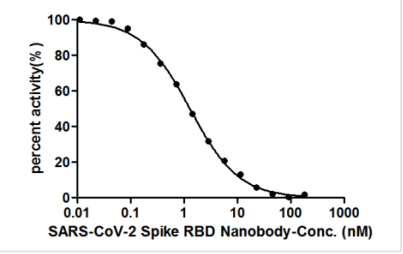
Image



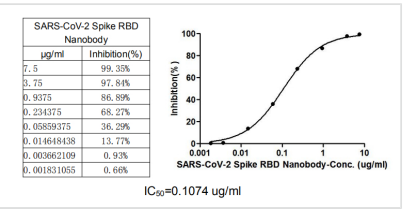
The Binding Activity of SARS-CoV-2-S Antibody with SARS-CoV-2-S1-RBD
Activity: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) at 2 μg/ml can bind SARS-CoV-2-S Antibody, the EC_{50} is 0.8674 ng/ml.



In the
Colloidal Gold Immunochromatography Assay detection system, the background of antibody (CSB-RA33245A2GMY) is clean, the detection limit can be as low as 25ng/ml (1.75ng/0.07ml), and the sensitivity is very good.



Binding signal of SARS-CoV-2 Spike RBD Nanobody (CSB-RA33245A2GMY) and SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) was inhibited by ACE2 protein-HRP conjugated inhibitor (CSB-MP866317HU) with the IC_{50} is 1.296 nM.



Binding signal of SARS-CoV-2 Spike RBD Nanobody (CSB-RA33245A2GMY) and SARS-CoV-2-S1-RBD (CSB-YP3324GMY1) was inhibited by ACE2 protein-HRP conjugated inhibitor (CSB-MP866317HU) with the IC_{50} is 0.1074 μg/ml.

Description

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