

SARS-CoV-2 (2019-nCoV) Spike antibody, Chimeric MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 40150-D001

GENERAL INFORMATION	
Immunogen:	Recombinant SARS-CoV Spike RBD Protein (Catalog#40150-V08B2)
Preparation	It is a chimeric monoclonal antibody combining the constant domains of the human IgG1 molecule with mouse variable regions. The variable region was obtained from a mouse immunized with purified, recombinant SARS-CoV Spike RBD Protein. The antibody was produced using recombinant antibody technology.
Ig Type:	mouse (variable region) / human (kappa / IgG1 constant) chimeric antibody
Clone ID	D001
Specificity:	SARS-CoV Spike RBD Protein Has cross-reactivity in ELISA with SARS-CoV Spike S1 Protein (Cat# 40150-V08B1) SARS-CoV-2 (2019-nCoV) Spike S1 Protein (Cat# 40591-V08H) SARS-CoV-2 (2019-nCoV) Spike RBD Protein (Cat# 40592-V08B) No cross-reactivity in ELISA with MERS-CoV Spike S1 Protein (Cat# 40069-V08B1) HCoV-HKU1 (isolate N1) Spike S1 Protein (Cat# 40021-V08H) HCoV-HKU1 (isolate N5) Spike S1 Protein (Cat# 40602-V08H) HCoV-NL63 Spike S1 Protein (Cat# 40600-V08H) HCoV-229E Spike S1 Protein (Cat# 40601-V08H) HCoV-OC43 Spike S1+S2 ECD Protein (Cat# 40607-V08B)
Formulation:	0.2 µm filtered solution in PBS
Storage:	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Alternative Names:	spike
APPLICATIONS	
Applications:	ELISA,FCM,ICC/IF,Neutralization (Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)
RECOMMENDED CONCENTRATION	
ELISA	ELISA: 1:5000-1:10000
FCM	FCM: 1:25-1:100
ICC/IF	IF: 1:20-1:100

Please Note: Optimal concentrations/dilutions should be determined by the end user.

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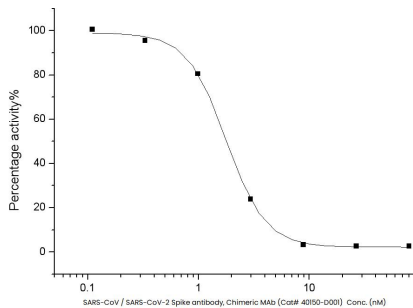
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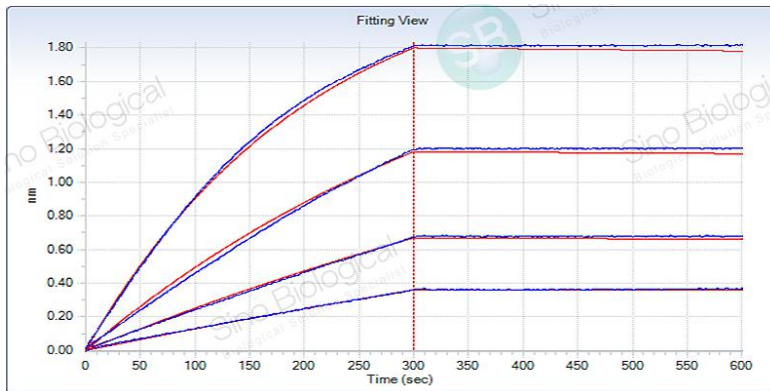
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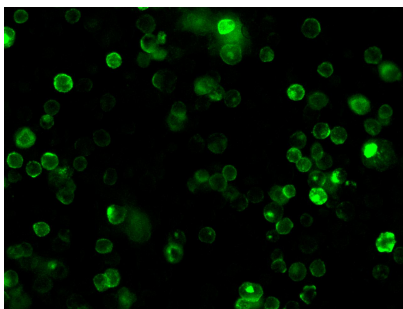
Serial dilutions of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40150-D001) was detected by SARS-CoV-2 (2019-nCoV) Inhibitor Screening ELISA Kit (Catalog# KIT001). The IC_{50} is typically 0.5-5 nM.

Conc. ($\mu\text{g/mL}$)	Inhibition%
100	100.00%
20	100.00%
4	98.04%
0.8	54.21%
0.16	22.52%
0.032	15.47%
0.0064	8.37%
0.00128	2.05%

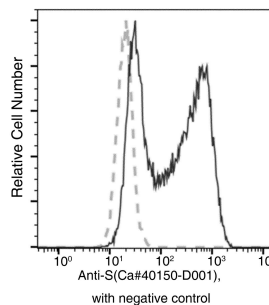
The neutralization activity is Measured by microneutralization assay in vitro. The virus microneutralization (MN) test was performed on 293T-ACE2 cells infected with SARS-CoV-2 (2019-nCoV) Spike Pseudovirus under treatment of serial dilutions of neutralizing antibody. The infection was neutralized by increasing concentrations of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40150-D001). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. The IC_{50} is typically 0.646 $\mu\text{g/mL}$.



Loaded SARS-CoV-2 (2019-nCoV) Spike RBD-His Recombinant Protein, Biotinylated (Cat.No.40592-V08B-B) on SA Biosensor, can bind SARS-CoV/SARS-CoV-2 Spike S1 antibody, Chimeric MAb (Cat.No. 40150-D001) with an affinity constant of 0.12 nM as determined by Octet RED System.



Immunofluorescence analysis of SARS-COV-2 Spike overexpressed HEK293 Cells were stained with purified anti-SARS Spike Chimera Mab, then a FITC-conjugated second step antibody.



Flow cytometric analysis of SARS-COV-2 Spike overexpressed HEK293 Cells were stained with purified anti-SARS-COV-2 Spike Chimeric MAb, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

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