

SARS-CoV-2 (2019-nCoV) Spike Neutralizing Antibody, Mouse MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 40591-MM43

GENERAL INFORMATION	
Immunogen:	Recombinant SARS-CoV-2 (2019-nCoV) Spike S1-mFc Protein (Catalog#40591-V05H1)
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, Recombinant SARS-CoV-2 (2019-nCoV) Spike S1-mFc Protein (Catalog#40591-V05H1; YP_009724390.1; Met1-Arg685). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Ig Type:	Mouse IgG1
Clone ID:	43
Specificity (ELISA)	SARS-CoV-2 (2019-nCoV) Spike S1 Protein Has cross-reactivity in ELISA with SARS-CoV-2 (2019-nCoV) Spike RBD Protein (Catalog#40592-V08B) No cross-reactivity in ELISA with SARS-CoV Spike S1-mFc Protein (Catalog#40150-V08B1) SARS-CoV Spike RBD-His Protein (Catalog#40150-V08B2) 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)
Concentration	> 1 mg/mL
Purity	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
Endotoxin	< 3 EU/mg
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.
APPLICATIONS	
Applications:	Neutralization, ELISA
	(Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)
RECOMMENDED CONCENTRATION	
ELISA	ELISA: 0.5-1 µg/mL

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

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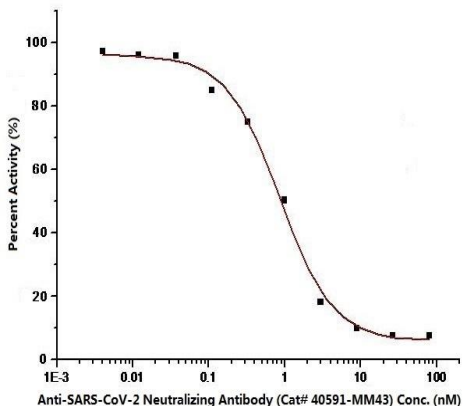
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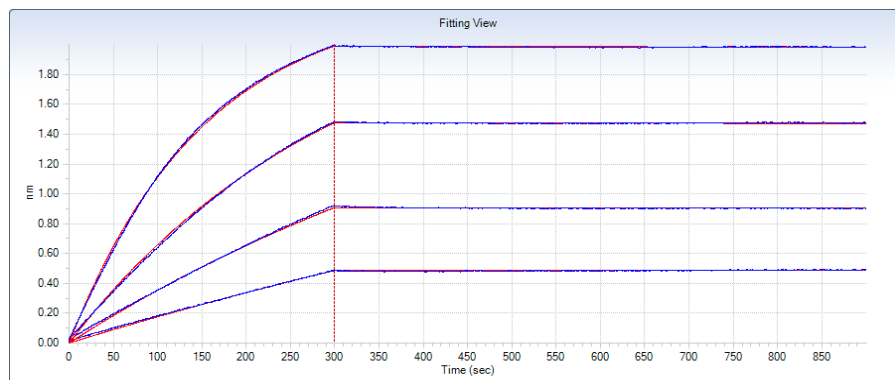
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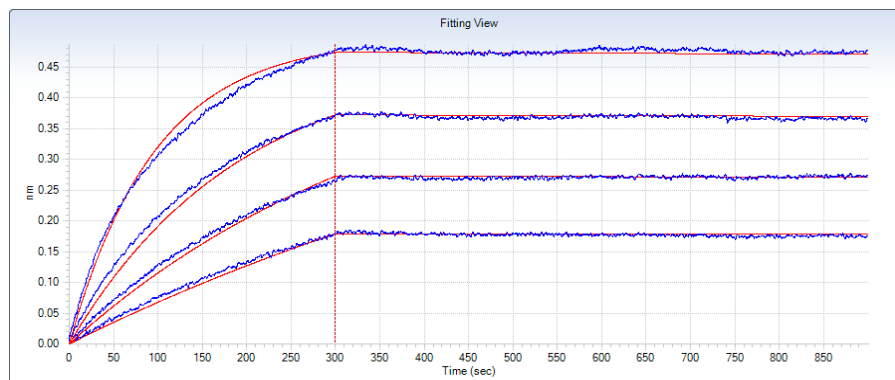
Serial dilutions of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40591-MM43) was detected by SARS-CoV-2 (2019-nCoV) Inhibitor Screening ELISA Kit (Catalog# KIT001). The IC_{50} is typically 0.857 nM.

Conc. (μ g/mL)	Inhibition%
100	96.39%
10	94.57%
1	42.24%
0.1	-5.53%

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# 40591-MM43). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. The IC_{50} is typically 1.41 μ 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-2 (2019-nCoV) Spike Neutralizing Antibody, Mouse MAb (Cat.No. 40591-MM43) with an affinity constant of 0.02 nM as determined by Octet RED System.



Loaded SARS-CoV-2 (2019-nCoV) Spike S1-His Recombinant Protein, Biotinylated (Cat.No.40591-V08H-B) on SA Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike Neutralizing Antibody, Mouse MAb (Cat.No. 40591-MM43) with an affinity constant of 0.04 nM as determined by Octet RED System.

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