

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



Sino Biological  
Biological Solution Specialist

Catalog Number: 40591-MM48

## GENERAL INFORMATION

<b>Immunogen:</b>	Recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (Catalog#40591-V05H1)
<b>Preparation</b>	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 ( Catalog#40591-V05H1; YP_009724390.1; Val16-Arg685). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
<b>Ig Type:</b>	Mouse IgG1
<b>Clone ID:</b>	48
<b>Specificity:</b>	SARS-CoV-2 (2019-nCoV) Spike <b>Has cross-reactivity in ELISA with</b> SARS-CoV-2 (2019-nCoV) Spike S1-His Protein (Catalog#40591-V08B1) SARS-CoV-2 (2019-nCoV) Spike RBD-His Protein (Catalog#40592-V08B) <b>No cross-reactivity in ELISA with</b> SARS-CoV Spike S1-mFc Protein (Catalog#40150-V08B1) 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)
<b>Formulation:</b>	0.2 µm filtered solution in PBS
<b>Storage:</b>	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.

## APPLICATIONS

<b>Applications:</b>	ELISA, Neutralization
	(Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)

## RECOMMENDED CONCENTRATION

<b>ELISA</b>	ELISA: ELISA: 0.5-1 µg/mL
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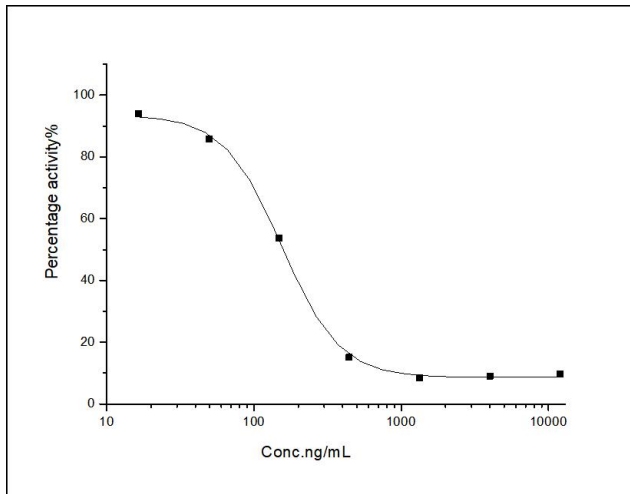
**Please Note: Optimal concentrations/dilutions should be determined by the end user.**

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Serial dilutions of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40591-MM48) was detected by SARS-CoV-2 (2019-nCoV) Inhibitor Screening ELISA Kit (Catalog# KIT001). The  $IC_{50}$  is typically 0.5-5 nM.

Conc. ( $\mu$ g/mL)	Inhibition%
50	99.98%
10	97.69%
2	87.00%
0.4	79.02%
0.08	37.01%
0.016	38.46%
0.0032	38.37%

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-MM48 ). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. The  $IC_{50}$  is typically 0.132  $\mu$ g/mL.

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

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