

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



Sino Biological  
Biological Solution Specialist

Catalog Number: 40592-R118

GENERAL INFORMATION	
<b>Immunogen:</b>	Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD-mFc Protein (Catalog#40592-V05H)
<b>Preparation</b>	This product is a recombinant monoclonal antibody expressed from HEK293 cells.
<b>Ig Type:</b>	Rabbit IgG
<b>Clone ID:</b>	118
<b>Specificity (ELISA)</b>	SARS-CoV-2 (2019-nCoV) Spike RBD Protein <b>Has cross-reactivity in ELISA with</b> SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD Protein (Catalog#40589-V08B1) <b>No cross-reactivity in ELISA with</b> SARS-CoV (Isolate Tor2) Spike S1+S2 ECD Protein (Cat# 40634-V08B) MERS-CoV Spike S1+S2 ECD Protein (Cat# 40069-V08B) HCoV-NL63 Spike S1+S2 ECD Protein (Catalog# 40604-V08B) HCoV-229E Spike S1+S2 ECD Protein (Catalog# 40605-V08B) HCoV-HKU1 (isolate N5) Spike S1+S2 ECD Protein (Cat# 40606-V08B) HCoV-OC43 Spike S1+S2 ECD Protein (Cat# 40607-V08B)
<b>Endotoxin</b>	< 3 EU/mg
<b>Formulation:</b>	0.22 µm filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80
<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.
APPLICATIONS	
<b>Applications:</b>	ELISA,FCM,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: 0.5-1 µg/mL
<b>FCM</b>	FCM: 10-40 µg/ml

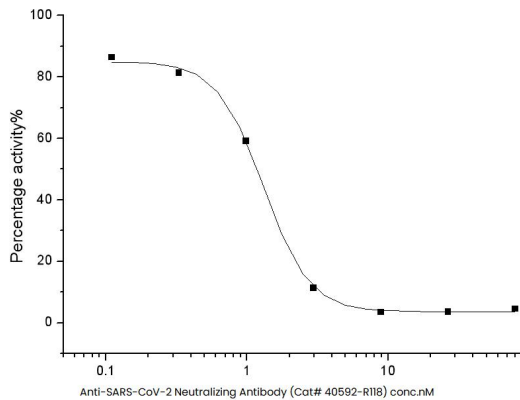
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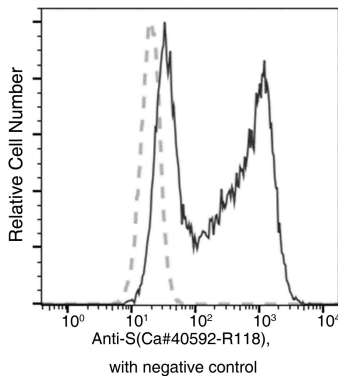
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Serial dilutions of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40592-R118) was detected by SARS-CoV-2 (2019-nCoV) Inhibitor Screening ELISA Kit (Catalog# KIT001). The IC<sub>50</sub> is typically 0.5-5 nM.

Conc. (µg/mL)	Inhibition%
100	99.98%
20	99.98%
4	98.93%
0.8	84.89%
0.16	26.57%
0.032	15.73%
0.0064	10.88%
0.00128	16.94%

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# 40592-R118). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. The IC<sub>50</sub> is typically 0.305 µg/mL.



Flow cytometric analysis of SARS-COV-2 Spike overexpressed HEK293 Cells were stained with purified anti-SARS-COV-2 Spike Neutralizing Rabbit 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.

Manufactured By Sino Biological Inc.

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