

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



Sino Biological
Biological Solution Specialist

Catalog Number: 40592-R117

GENERAL INFORMATION	
Immunogen:	Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD-mFc Protein (Catalog#40592-V05H)
Preparation	This product is a recombinant monoclonal antibody expressed from HEK293 cells.
Ig Type:	Rabbit IgG
Clone ID:	001
Specificity (ELISA)	SARS-CoV-2 (2019-nCoV) Spike RBD Protein Has cross-reactivity in ELISA with SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD Protein (Catalog#40589-V08B1) No cross-reactivity in ELISA with 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)
Endotoxin	< 3 EU/mg
Formulation:	0.22 µm filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80
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:	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	
ELISA	ELISA: 0.5-1 µg/mL
FCM	FCM: 10-40 µg/ml

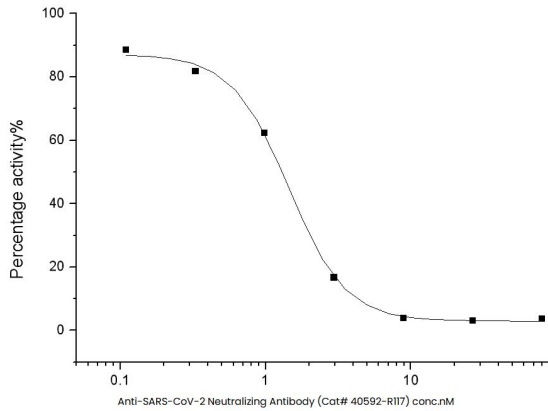
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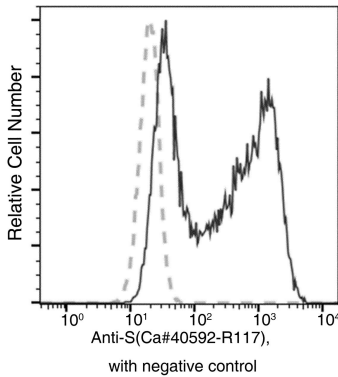
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Serial dilutions of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40592-R117) was detected by SARS-CoV-2 (2019-nCoV) Inhibitor Screening ELISA Kit (Catalog# KIT001). The IC_{50} is typically 0.5-5 nM.

Conc. ($\mu\text{g/mL}$)	Inhibition%
100	99.92%
20	99.93%
4	96.56%
0.8	79.12%
0.16	47.15%
0.032	20.02%
0.0064	19.24%
0.00128	33.54%

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-R117). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. The IC_{50} is typically 0.185 $\mu\text{g/mL}$.



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.

Tel: 215-583-7898 (US); +86-400-890-9989(Global) • <http://www.sinobiological.com>