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

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
Endotoxin	< 3 EU/mg
Formulation:	0.2 μm filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80, pH6.0
Storage:	This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. Avoid repeated freeze-thaw cycles.
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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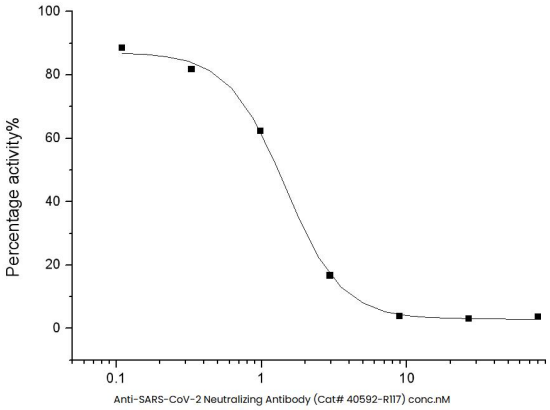
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GENERAL INFORMATION

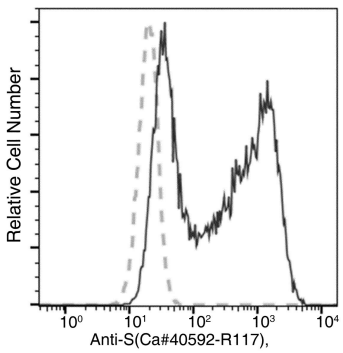
Specificity (ELISA)	SARS-CoV-2 (2019-nCoV) Spike RBD Protein **Has cross-reactivity in ELISA with** SARS-CoV-2 Delta (B.1.617.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H10) SARS-CoV-2 Delta (B.1.617.2) Spike S1+S2 Protein (Cat# 40589-V08B16) SARS-CoV-2 Delta (B.1.617.2) Spike RBD Protein (Cat# 40592-V08H90) SARS-CoV-2 Spike RBD (N501Y) Protein (Cat# 40592-V08H82) SARS-CoV-2 Spike S1+S2 ECD Protein (Catalog#40589-V08B1) SARS-CoV-2 Spike RBD Protein (Catalog#40592-V08B) **Medium cross-reactivity in ELISA with** SARS-CoV-2 Delta (B.1.617.2) Spike S1 Protein (Cat# 40591-V08H23) **No cross-reactivity in ELISA with** SARS-CoV-2 Omicron (XBB.1.16) Spike S1+S2 trimer Protein (Cat# 40589-V08H48) SARS-CoV-2 Omicron (XBB.1.5) Spike RBD Protein (Cat# 40592-V08H146) SARS-CoV-2 Omicron (XBB.1.5) Spike S1+S2 trimer Protein (Cat# 40589-V08H45) SARS-CoV-2 Omicron (XBB.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H42) SARS-CoV-2 Omicron (XBB) Spike RBD Protein (Cat# 40592-V08H144) SARS-CoV-2 Omicron (BQ.1.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H41) SARS-CoV-2 Omicron (BQ.1.1) Spike RBD Protein (Cat# 40592-V08H143) SARS-CoV-2 Omicron (BF.7) Spike S1+S2 trimer Protein (Cat# 40589-V08H39) SARS-CoV-2 Omicron (BA.4.6/BF.7) Spike RBD Protein (Cat# 40592-V08H140) SARS-CoV-2 Omicron (BA.4.6) Spike S1+S2 trimer Protein (Cat# 40589-V08H37) SARS-CoV-2 Omicron (BA.2.75) Spike RBD Protein (Cat# 40592-V08H135) SARS-CoV-2 Omicron (BA.2.75) Spike S1+S2 trimer Protein (Cat# 40589-V08H36) SARS-CoV-2 Omicron (BA.2.75.2) Spike RBD Protein (Cat# 40592-V08H141) SARS-CoV-2 Omicron (BA.2.75.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H38) SARS-CoV-2 Omicron (BA.2.3.20) Spike RBD Protein (Cat# 40592-V08H142) SARS-CoV-2 Omicron (BA.1.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H29) SARS-CoV-2 Omicron (BA.1.1) Spike RBD Protein (Cat# 40592-V08H129) SARS-CoV-2 Omicron (B.1.1.529) S1+S2 trimer Protein (Cat# 40589-V08H26) SARS-CoV-2 Omicron (B.1.1.529) Spike S1 Protein (Cat# 40591-V08H41) SARS-CoV-2 Omicron (B.1.1.529) Spike RBD Protein (Cat# 40592-V08H121) SARS-CoV-2 Omicron (BA.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H28) SARS-CoV-2 Omicron (BA.2) Spike S1 Protein (Cat# 40591-V08H43) SARS-CoV-2 Omicron (BA.2) Spike RBD Protein (Cat# 40592-V08H123) SARS-CoV-2 Omicron (BA.2) Spike S1 NTD Protein (Cat# 40591-V08H44) SARS-CoV-2 Omicron (BA.2.12.1) Spike RBD Protein (Cat# 40592-V08H132) SARS-CoV-2 Omicron (BA.4/BA.5/BA.5.2) Spike RBD Protein (Cat# 40592-V08H130) SARS-CoV-2 Omicron (BA.5) Spike RBD Protein (Cat# 40592-V08H131) SARS-CoV-2 XD (BA.1 x AY.4) Spike S1+S2 trimer Protein (Cat# 40589-V08H30) SARS-CoV-2 Delta (B.1.617.2) Spike S1 NTD Protein (Cat# 40591-V08H36) SARS-CoV-2 Spike RBD (K417T, E484K, N501Y) Protein (Cat# 40592-V08H86) SARS-CoV-2 Spike RBD (K417N, E484K, N501Y) Protein (Cat# 40592-V08H85) 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)

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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} (WT) is typically 0.5-5 nM.



Flow cytometric analysis of SARS-COV-2 Spike overexpressed HEK293 cells.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.

(Validation Experiment)

Conc. (μg/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 microneutralizaiton (MN) test was performed on 293T-ACE2 cells infected with SARS-CoV-2 Spike Pseudovirus (WT, Cat# PSV001) 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} (WT) is typically 1.6-25 μg/mL.