

# SARS-CoV-2 Spike Neutralizing Antibody, Rabbit MAb



Sino Biological  
Biological Solution Specialist

Catalog Number: 40592-R505

## GENERAL INFORMATION

Immunogen:	Recombinant SARS-CoV-2 Spike RBD Protein (Catalog#40592-V05H)
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant SARS-CoV-2 Spike RBD-mFc Protein (Catalog#40592-V05H; YP_009724390.1; Arg319-Phe541).
Ig Type:	Rabbit IgG
Clone ID:	505
Concentration	> 1 mg/mL
Purity	> 90 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
Endotoxin	< 3 EU/mg
Neutralization	<p>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 Spike Pseudovirus (WT, Cat# PSV001), or SARS-CoV-2 Spike Omicron (B.1.1.529) Pseudovirus (Cat# PSV016), or SARS-CoV-2 Delta (B.1.617.2) variant Spike Pseudovirus (Cat# PSV011), under treatment of serial dilutions of neutralizing antibody. The infection was neutralized by increasing concentrations of Anti-SARS-CoV-2 Neutralizing Antibody (Catalog# 40592-R505). Rate of inhibition was determined by comparing the Relative Light Unit (RLU) of Luciferase reporter in different antibody concentrations. <math>IC_{50}(WT)</math> is 11.74 <math>\mu</math>g/mL.</p> <p>No neutralization activity to SARS-CoV-2 Delta (B.1.617.2) variant Spike Pseudovirus (Cat# PSV011), and SARS-CoV-2 Omicron (B.1.1.529) variant Spike Pseudovirus (Cat# PSV016).</p>
Formulation:	0.2 $\mu$ m 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. Avoid repeated freeze-thaw cycles.

## APPLICATIONS

Applications:	ELISA, 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: 0.1-0.2 $\mu$ g/mL
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**Please Note: Optimal concentrations/dilutions should be determined by the end user.**

WT	
Conc. ( $\mu$ g/mL)	Inhibition%
100	64.63%
20	58.55%
4	32.73%
0.8	40.11%
0.16	23.05%
0.032	21.63%

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No neutralization activity to SARS-CoV-2 Delta (B.1.617.2) variant Spike Pseudovirus (Cat# PSV011), and SARS-CoV-2 Omicron (B.1.1.529) variant Spike Pseudovirus (Cat# PSV016).

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## GENERAL INFORMATION

### Specificity

SARS-CoV-2 Spike RBD Protein (Could't block ACE2)

#### **Has cross-reactivity in ELISA with**

SARS-CoV-2 (BA.2.75) Spike RBD Protein (Cat# 40592-V08H135)  
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 Delta (B.1.617.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H10)  
SARS-CoV-2 Delta (B.1.617.2) Spike S1 Protein (Cat# 40591-V08H23)  
SARS-CoV-2 Delta (B.1.617.2) Spike RBD Protein (Catalog#40592-V49H1-B)  
SARS-CoV-2 Spike RBD Protein (WT, no-variants) (Catalog#40592-V08H, 40592-V08B, 40592-V27H-B)

#### **Medium cross-reactivity in ELISA with**

SARS-CoV-2 XBB (Omicron) Spike RBD Protein (Cat# 40592-V08H144)  
SARS-CoV-2 BQ.1.1 (Omicron) Spike RBD Protein (Cat# 40592-V08H143)  
SARS-CoV-2 BA.4.6/BF.7 (Omicron) Spike RBD Protein (Cat# 40592-V08H140)  
SARS-CoV-2 BA.2.75.2 (Omicron) Spike RBD Protein (Cat# 40592-V08H141)  
SARS-CoV-2 (BA.2.3.20) Spike RBD Protein (Cat# 40592-V08H142)

#### **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 (BQ.1.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H41)  
SARS-CoV-2 Omicron (BF.7) Spike S1+S2 trimer Protein (Cat# 40589-V08H39)  
SARS-CoV-2 Omicron (BA.4.6) Spike S1+S2 trimer Protein (Cat# 40589-V08H37)  
SARS-CoV-2 Omicron (BA.2.75) Spike S1+S2 trimer Protein (Cat# 40589-V08H36)  
SARS-CoV-2 Omicron (BA.2.75.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H38)  
SARS-CoV-2 Omicron (B.1.1.529) Spike RBD Protein (Catalog#40592-V49H7)  
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)

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