

Spike Antibody, Mouse MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 40591-MM41

GENERAL INFORMATION

Immunogen:	Recombinant SARS-CoV-2 Spike Protein (Catalog#40591-V05H1)
Preparation	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 Spike (Catalog#40591-V05H1; YP_009724390.1; Val16-Arg685). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Ig Type:	Mouse IgG1
Clone ID:	41
Formulation:	0.2 µm 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.
Alternative Names:	Spike

APPLICATIONS

Applications:	ELISA,FCM,IHC-P,ELISA(Det)
	(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
Sandwich ELISA (Detection Ab)	ELISA(Det): 0.1-1µg/mL
FCM	FCM: 1:25-1:100
IHC-P	IHC-P: 1:20-1:100

Please Note: Optimal concentrations/dilutions should be determined by the end user.

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Specificity:	SARS-CoV-2 Spike S1
Has cross-reactivity in ELISA with SARS-CoV-2 Omicron (LP.8.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H69) SARS-CoV-2 Omicron (KP.3.1.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H63) SARS-CoV-2 Omicron (KP.3) Spike S1+S2 trimer Protein (Cat# 40589-V08H64) SARS-CoV-2 (XEC) Spike S1+S2 trimer Protein (Cat# 40589-V08H62) SARS-CoV-2 Omicron (hk.3) Spike RBD Protein (Cat# 40592-V08H153) SARS-CoV-2 Omicron (JN.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H59) SARS-CoV-2 Omicron (EG.5.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H55) SARS-CoV-2 Omicron (EG.5.1) Spike RBD Protein (Cat# 40592-V08H151) SARS-CoV-2 Omicron (EG.5.1) Spike S1+S2 trimer Protein (Cat# 40589-V08H57) SARS-CoV-2 Omicron (KP.2) Spike S1+S2 trimer Protein (Cat# 40589-V08H61) SARS-CoV-2 Omicron (KP.2) Spike RBD Protein (Cat# 40592-V08H156) SARS-CoV-2 Omicron (KP.3) Spike RBD Protein (Cat# 40592-V08H157) 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.2.12.1) Spike RBD Protein (Cat# 40592-V08H132) 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+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 S1 Protein (Cat# 40591-V08H23) SARS-CoV-2 Delta (B.1.617.2) Spike RBD Protein (Cat# 40592-V08H90) SARS-CoV-2 Spike S1+S2 ECD Protein (Cat# 40589-V08B1) SARS-CoV-2 Spike S1 Protein (Cat# 40591-V05H1) SARS-CoV-2 Spike S1 Protein (Cat# 40591-V08H) SARS-CoV-2 Spike RBD Protein (Cat# 40592-V05H) SARS-CoV-2 Spike RBD Protein (Cat# 40592-V08B) SARS-CoV Spike S1+S2 ECD Protein (Cat# 40634-V08B)	Medium cross-reactivity in ELISA with SARS-CoV-2 Omicron (BA.2) Spike RBD Protein (Cat# 40592-V08H123) SARS-CoV-2 Omicron (BA.4) Spike RBD Protein (Cat# 40592-V08H130) SARS-CoV-2 Omicron (BA.5) Spike RBD Protein (Cat# 40592-V08H131) No cross-reactivity in ELISA with SARS-CoV-2 Omicron (BA.2) Spike S1 NTD Protein (Cat# 40591-V08H44) SARS-CoV-2 Delta (B.1.617.2) Spike S1 NTD Protein (Cat# 40591-V08H36) MERS-CoV Spike S1+S2 ECD Protein (Cat# 40069-V08B) HCoV-NL63 Spike S1+S2 ECD Protein (Cat# 40604-V08B) HCoV-229E Spike S1+S2 ECD Protein (Cat# 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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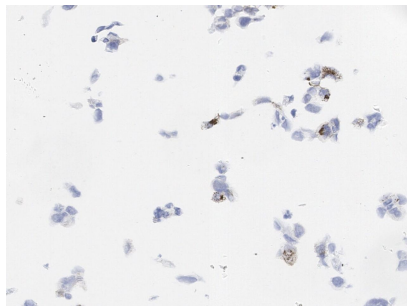
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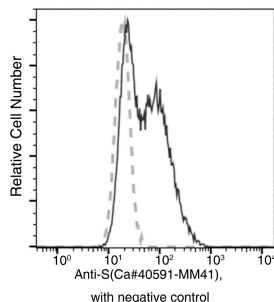
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Immunofluorescence analysis of SARS-CoV-2 Spike overexpressed HEK293 Cells were stained with purified anti-SARS-CoV-2 Spike Mouse MAb, then a HRP-conjugated second step antibody.

(Validation Experiment)



Flow cytometric analysis of SARS-CoV-2 Spike overexpressed HEK293 cells. Cells were stained with purified anti-SARS-CoV-2 Spike Mouse 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)

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