

SARS-CoV-2 (2019-nCoV) Nucleocapsid Antibody, Mouse MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 40588-MM123

GENERAL INFORMATION	
Immunogen:	Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Catalog#40588-V08B)
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, SARS-CoV-2 (2019-nCoV) Nucleocapsid (Catalog#40588-V08B; YP_009724397.2(335Gly/Ala); Met1-Ala419). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Ig Type:	Mouse IgG1
Clone ID:	123
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.
APPLICATIONS	
Applications:	WB,ELISA,ELISA(Cap),IHC-P,FCM
	(Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)
RECOMMENDED CONCENTRATION	
WB	WB: 1:1000-1:10000
ELISA	ELISA: 1:1000-1:2000
IHC-P	IHC-P: 1:1000-1:5000
FCM	FCM: 1:25-1:100
ELISA(Cap)	ELISA(Cap): 1:250-1:2000 In a sandwich ELISA, Cat# 40588-MM123 can be used as capture antibody when paired with Cat# 40588-R001, Cat# 40588-MM124.

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

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Specificity	SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein Has Minimal cross-reactivity in ELISA and WB with SARS-CoV NP Protein (Cat#40143-V08B) Has cross-reactivity in ELISA with SARS-CoV-2 Omicron (B.1.1.529) Nucleocapsid Protein (Cat# 40588-V07E34) SARS-CoV-2 Omicron (BA.2) Nucleocapsid Protein (Cat# 40588-V07E35) SARS-CoV-2 Omicron XE(BA.1 x BA.2) Nucleocapsid Protein (Cat# 40588-V07E36) SARS-CoV-2 Omicron (BA.4) Nucleocapsid Protein (Cat# 40588-V07E37) SARS-CoV-2 Delta (B.1.617) Nucleocapsid (D377Y) Protein (Cat# 40588-V07E16) SARS-CoV-2 Delta (B.1.617) Nucleocapsid (R203M, D377Y) Protein (Cat# 40588-V07E20) SARS-CoV-2 Delta (B.1.617.2) Nucleocapsid Protein (Cat# 40588-V07E29) SARS-CoV-2 Delta (B.1.617.3) Nucleocapsid (P67S, R203M, D377Y) Protein (Cat# 40588-V07E30) SARS-CoV-2 Alpha (B.1.1.7) Nucleocapsid(R203K, G204R) Protein (Cat# 40588-V07E1) SARS-CoV-2 Alpha (B.1.1.7) Nucleocapsid(I292T) Protein (Cat# 40588-V07E4) SARS-CoV-2 Alpha (B.1.1.7) Nucleocapsid(D3L, R203K, G204R, S235F) Protein (Cat# 40588-V07E7) SARS-CoV-2 Alpha (B.1.1.7) Nucleocapsid(D3L, S235F) Protein (Cat# 40588-V07E8) SARS-CoV-2 Alpha(B.1.1.7/ B.1.237) Nucleocapsid(S194L) Protein (Cat# 40588-V07E3) SARS-CoV-2 Alpha/beta(B.1.1.7/ B.1.351/ A.2.2) Nucleocapsid(P13L) Protein (Cat# 40588-V07E2) SARS-CoV-2 Beta(B.1.351/B.1.351.2/b.1.351.3/B.1.427/B.1.429) Nucleocapsid (T205I) Protein (Cat# 40588-V07E9) SARS-CoV-2 Gamma(P.1/ P.1.1/ P.1.2) Nucleocapsid (P80R) Protein (Cat# 40588-V07E11) SARS-CoV-2 Eta(B.1.525) Nucleocapsid (A12G, T205I) Protein (Cat# 40588-V07E19) SARS-CoV-2 Nucleocapsid Protein (Cat# 40588-V07E)^I No cross-reactivity in ELISA with MERS-CoV Nucleocapsid Protein (Cat# 40068-V08B) HCoV-229E Nucleocapsid Protein (Cat# 40640-V07E) HCoV-NL63 Nucleocapsid Protein (Cat# 40641-V07E) HCoV-HKU1 Nucleocapsid Protein (Cat# 40642-V07E) HCoV-OC43 Nucleocapsid Protein (Cat# 40643-V07E)
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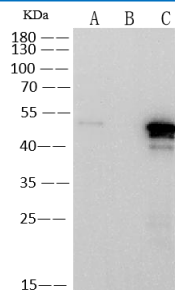
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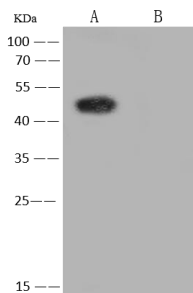


Anti-SARS-CoV-2 Nucleocapsid mouse monoclonal antibody at 1:1000 dilution.

Lane A: SARS-CoV Nucleocapsid Protein (Cat#40143-V08B) (30ng)
Lane B: SARS-CoV Nucleocapsid Protein (Cat#40143-V08B) (10ng)
Lane C: SARS-CoV-2 (2019-nCoV) Nucleocapsid-His recombinant Protein (Cat#40588-V08B) (10ng)

Secondary
Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.

Developed using the ECL technique.
Performed under reducing conditions.



Anti-SARS-CoV-2 (2019-nCoV) Nucleocapsid mouse monoclonal antibody at 1:5000 dilution.

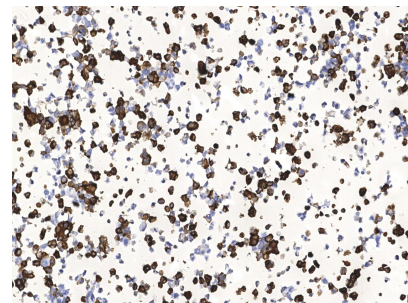
Lane A: SARS-CoV-2 Nucleocapsid overexpressed HEK293 Whole Cell Lysate
Lane B: HEK293 Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution

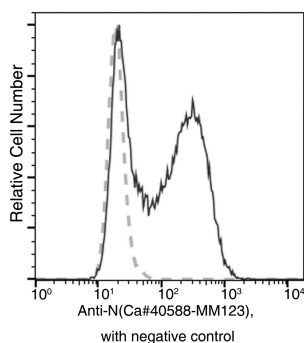
Developed using the ECL technique.
Performed under reducing conditions.

(Validation Experiment)



Immunocytochemistry analysis of Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS-CoV-2 Nucleocapsid Mouse MAb, then a HRP-conjugated second step antibody.

(Validation Experiment)



Flow cytometric analysis of SARS-CoV-2 Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS-CoV-2 Nucleocapsid 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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