

SARS-CoV Nucleoprotein / NP Antibody, Mouse MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 40143-MM08

GENERAL INFORMATION

Immunogen:	Recombinant SARS-CoV Nucleoprotein / NP Protein (Catalog#40143-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, recombinant SARS-CoV Nucleoprotein / NP (Catalog#40143-V08B; NP_828858.1; Met1-Ala422). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Ig Type:	Mouse IgG1
Clone ID:	08
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:	NP

APPLICATIONS

Applications:	WB,ELISA,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
IHC-P	IHC-P: 1:100-1:500
FCM	FCM: 1:25-1:100
ELISA	ELISA: 1:5000-1:10000 This antibody can be used at 1:5000-1:10000 with the appropriate secondary reagents to detect SARS-CoV Nucleoprotein / NP.

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

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Specificity:

SARS-CoV Nucleocapsid Protein

Has cross-reactivity in ELISA and WB with

SARS-CoV-2 Nucleocapsid Protein (Cat# 40588-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 (40068-V08B)

HCoV-229E Nucleocapsid protein (40640-V07E)

HCoV-NL63 Nucleocapsid protein (40641-V07E)

HCoV-HKU1(isolate N5) Nucleocapsid protein (40642-V07E)

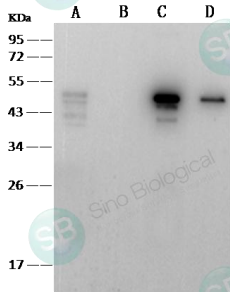
HCoV-OC43 Nucleocapsid protein (40643-V07E)

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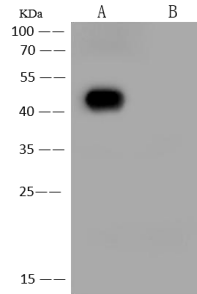


Anti-SARS-NP mouse monoclonal antibody at 1:1000 dilution.

Lane A: SARS-CoV NP Protein (Cat#40143-V08B) (30ng)
Lane B: SARS-CoV NP Protein (Cat#40143-V08B) (5ng)
Lane C: SARS-CoV-2 (2019-nCoV) NP Protein (Cat#40588-V08B) (30ng)
Lane D: SARS-CoV-2 (2019-nCoV) NP Protein (Cat#40588-V08B) (5ng)

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

Developed using the ECL technique.
Performed under reducing conditions.



Anti-SARS-CoV / SARS-CoV-2 Nucleocapsid mouse monoclonal antibody at 1:5000 dilution.

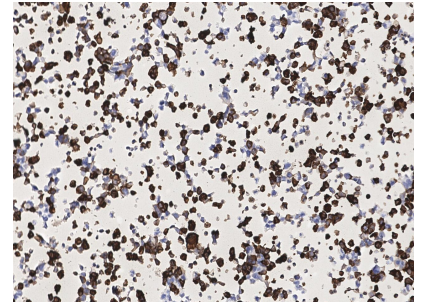
Lane A: SARS-COV-2 Nucleocapsid overexpressed HEK293 Whole Cell Lysate
Lane B: HEK293 Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

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

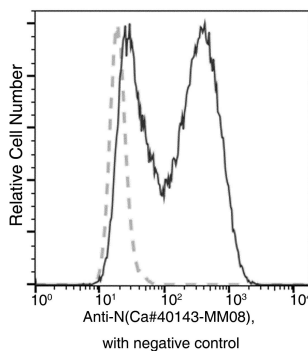
Developed using the ECL technique.
Performed under reducing condition

(Validation Experiment)



Immunocytochemical 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. 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)

Manufactured By Sino Biological Inc.

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