

# SARS-CoV / SARS-CoV-2 Nucleocapsid Antibody, Chimeric MAb



Sino Biological  
Biological Solution Specialist

Catalog Number: 40143-MM05TA

| GENERAL INFORMATION       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>         | Recombinant SARS-CoV Nucleoprotein / NP Protein (Catalog#40143-V08B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Preparation</b>        | It is a chimeric monoclonal antibody combining the constant domains of the human IgG1 molecule with mouse variable regions, and the variable region was from mouse monoclonal antibody (Cat#40143-MM05). The chimeric monoclonal antibody was produced using recombinant antibody technology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Ig Type:</b>           | Mouse (variable region) / human (kappa / IgG1 constant) chimeric antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone ID:</b>          | 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Specificity:</b>       | <p>SARS-CoV Nucleocapsid Protein</p> <p><b>Has cross-reactivity in ELISA with</b><br/> SARS-CoV-2 Omicron (B.1.1.529) Nucleocapsid Protein (Cat #40588-V07E34)<br/> SARS-CoV-2 Omicron (BA.2) Nucleocapsid Protein (Cat# 40588-V07E35)<br/> SARS-CoV-2 Omicron XE(BA.1 x BA.2) Nucleocapsid Protein (Cat# 40588-V07E36)<br/> SARS-CoV-2 Omicron (BA.4) Nucleocapsid Protein (Cat# 40588-V07E37)<br/> SARS-CoV-2 Delta (B.1.617.2) Nucleocapsid Protein (Cat# 40588-V07E29)<br/> SARS-CoV-2 Nucleocapsid Protein (Cat# 40588-V08B)<sup>†</sup></p> <p><b>No cross-reactivity in ELISA with</b><br/> MERS-CoV Nucleocapsid protein (Cat# 40068-V08B)<br/> HCoV-229E Nucleocapsid protein (Cat# 40640-V07E)<br/> HCoV-NL63 Nucleocapsid protein (Cat# 40641-V07E)<br/> HCoV-HKU1(isolate N5) Nucleocapsid protein (Cat# 40642-V07E)<br/> HCoV-OC43 Nucleocapsid protein (Cat# 40643-V07E)</p> |
| <b>Formulation:</b>       | 0.2 µm filtered solution in PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage:</b>           | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Alternative Names:</b> | NP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| APPLICATIONS              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications:</b>      | WB,ELISA,FCM,IHC-P,ICC/IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                           | (Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RECOMMENDED CONCENTRATION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Western Blot</b>       | WB: 1:2000-1:5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ELISA</b>              | ELISA: 1:1000-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>FCM</b>                | FCM: 1:25-1:100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>IHC-P</b>              | IHC-P: 1:20-1:100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ICC/IF</b>             | IF: 1:20-1:100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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

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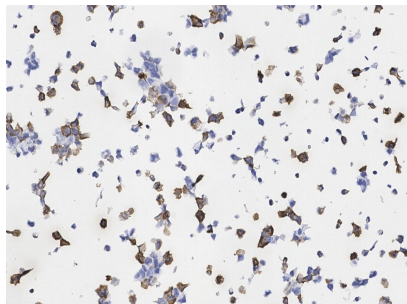
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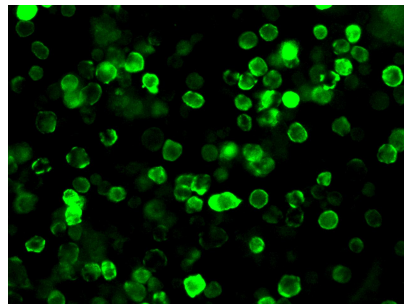
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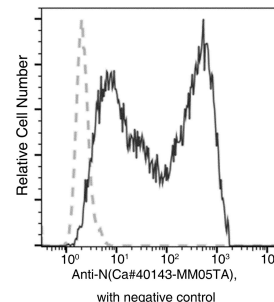
Immunohistochemical analysis of SARS-CoV-2 Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS Nucleocapsid Chimera Mab, then a HRP-conjugated second step antibody.

(Validation Experiment)



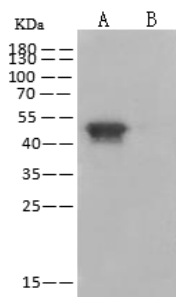
Immunofluorescence analysis of SARS-CoV-2 Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS Nucleocapsid Chimera Mab, then a FITC-conjugated second step antibody.

(Validation Experiment)



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



**Anti-SARS-CoV / SARS-CoV-2 Nucleocapsid Chimeric monoclonal antibody at 1:2000 dilution.**

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

Lysates/proteins at 30 µg per lane.

## Secondary

Goat Anti-Human IgG Fc/HRP at 1/1000 dilution

Developed using the ECL technique.  
Performed under reducing conditions.

(Validation Experiment)

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