



Source

Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AS46) (NUN-S46) 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 Nucleocapsid protein. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. As verified by binding test with N-NTD (Cat.No. NUN-C5143) and N-CTD (Cat.No. NUN-C5145) protein, this antibody can only bind to N-NTD (AA Gly 44 - Glu 174).

Clone

AS46

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Reactivity

Virus

Specificity

This product can recognize SARS-CoV-2 and SARS-CoV Nucleocapsid protein. No cross-reactivity is detected with nucleocapsid protein of other coronaviruses, including MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.

Application

Application	Recommended Usage
ELISA	0.2-10 ng/mL

Purity

>95% as determined by SDS-PAGE.

Purification

Protein A purified/ Protein G purified

Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with blue ice, please inquire the shipping cost.

Storage

Please avoid repeated freeze-thaw cycles.

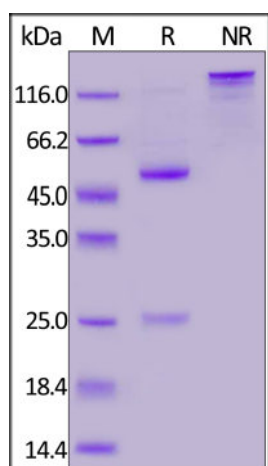
This product is stable after storage at:

- For long term storage, the product is stable for up to 3 years at -70°C from date of receipt;
- For short term storage, the product is stable for up to 12 months at 2-8°C from date of receipt.

SDS-PAGE

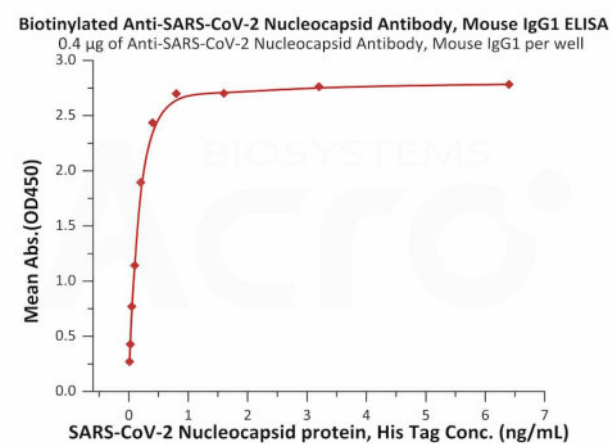
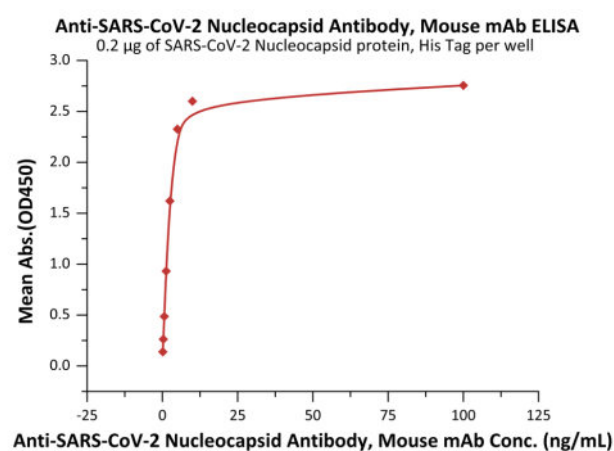
Discounts, Gifts,
and more!





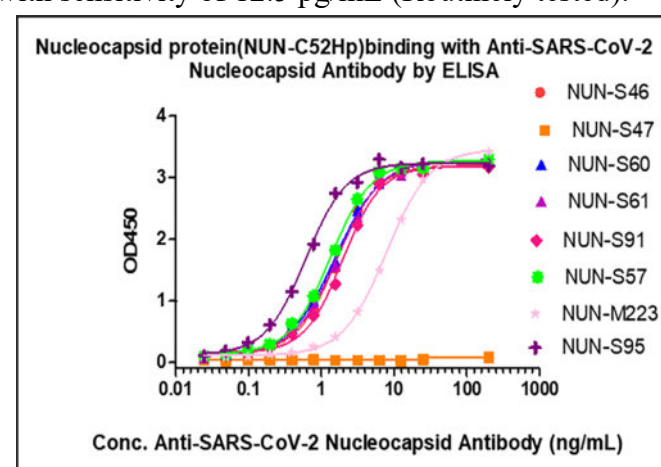
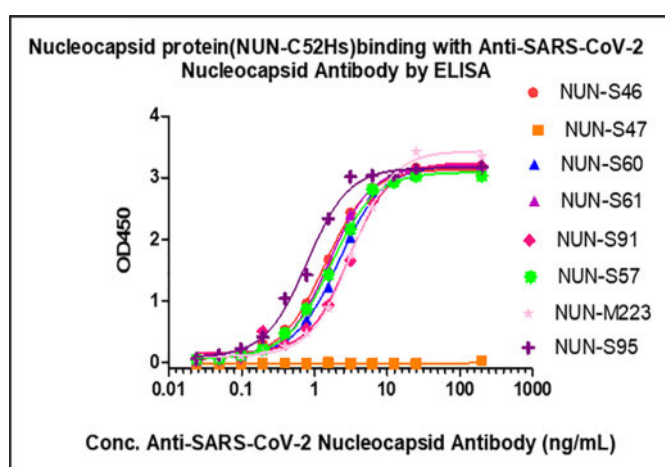
Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AS46) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (Cat. No. NUN-C5227) at 2 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (Cat. No. NUN-S46) with a linear range of 0.15-2.5 ng/mL (QC tested).

Detection SARS-CoV-2 Nucleocapsid Protein by Sandwich ELISA Assay. Immobilized Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AS46) (Cat. No. NUN-S46) at 4 µg/mL (100 µL/well) can bind SARS-CoV-2 Nucleocapsid Protein (Cat. No. NUN-C5227). And then add Biotinylated Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (Cat. No. NUN-S47L8) at 0.05 µg/mL. Detection was performed using high sensitivity HRP-conjugated streptavidin with sensitivity of 12.5 pg/mL (Routinely tested).



Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AS46) (Cat. No. NUN-S46) can bind the Delta variant of nucleocapsid protein (Cat. No. NUN-C52Hs).

Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AS46) (Cat. No. NUN-S46) can bind the Delta variant of nucleocapsid protein (Cat. No. NUN-C52Hp).

Background

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Nucleocapsid (N) protein is the most abundant protein found in coronavirus. CoV N protein is a highly immunogenic phosphoprotein important for viral genome replication and modulation of cell signaling pathways. It was first identified by a research team while they were screening for ADP-ribosylated proteins during coronavirus (CoV) infection (Grunewald M. E., et al. 2017, Virology; 517: 62-68). The array of diverse functional activities accommodated in N protein makes it more than a structural protein but also an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, N protein of coronavirus is chosen as a diagnostic tool.

Clinical and Translational Updates

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