

Source

Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (AMS.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.

Isotype

Mouse IgG1/kappa

Specificity

The cross-reactivity with other coronaviruses has not been tested yet.

Application

This antibody can be paired with other Anti-SARS-CoV-2 Nucleocapsid antibodies to detect SARS-CoV-2 Nucleocapsid protein in sandwich ELISA or LFA assay.

Purity

>95% as determined by SDS-PAGE.

Formulation

Delivered as bulk protein in a 0.2 µm filtered solution of PBS, pH7.4.

Storage

For long term storage, the product should be stored in liquid state at 2-6°C upon receipt.

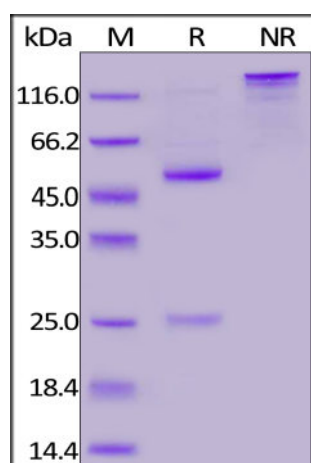
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product **MUST** be stored at 2-6°C upon receipt.
- The product is validated to be stable after storage at 4°C for 3 months under sterile conditions.

Shipping

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

SDS-PAGE

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

Bioactivity-ELISA

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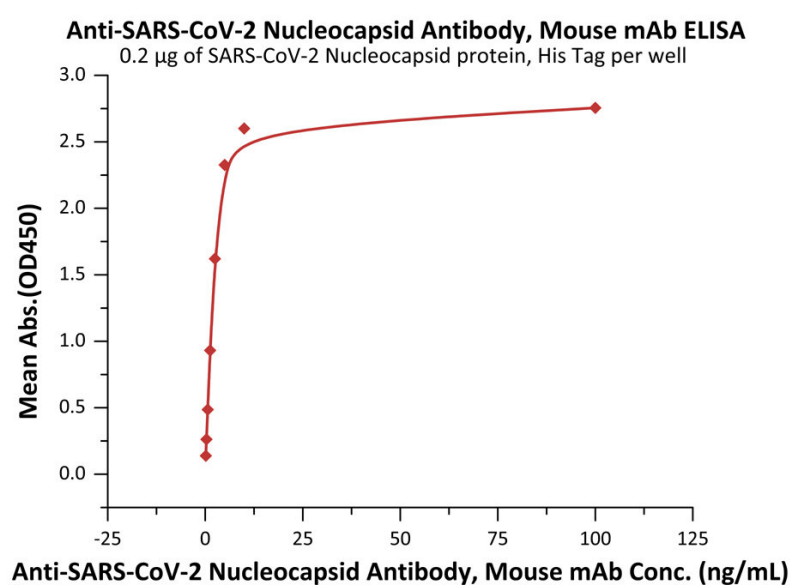
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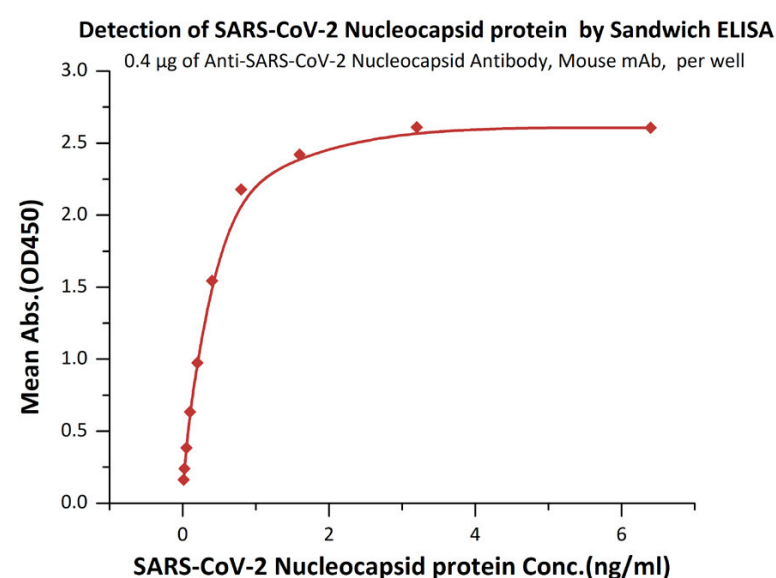
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Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (Cat. No. AMS.NUN-C5227) at 2 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (Cat. No. AMS.NUN-S46) with a linear range of 0.15-2.5 ng/mL (QC tested).



Detection SARS-CoV-2 Nucleocapsid Protein by Sandwich ELISA Assay. Immobilized Anti-SARS-CoV-2 Nucleocapsid Antibody (Cat. No. AMS.NUN-S46) at 4 µg/mL (100 µL/well) can bind SARS-CoV-2 Nucleocapsid Protein. And then add Biotinylated Anti-SARS-CoV-2 Nucleocapsid Antibody (Cat. No. AMS.NUN-S47) at 0.05 µg/mL. Detection was performed using high sensitivity HRP-conjugated streptavidin with sensitivity of 12.5 pg/mL (Routinely tested).

Background

Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. While screening for ADP-ribosylated proteins during coronavirus (CoV) infection, we identified as the viral nucleocapsid (N) protein. Novel post-translation modification of the CoV N protein that may play a regulatory role for this important structural protein. The array of diverse functional activities accommodated in the hantaviral N protein goes far beyond to be a static structural protein and makes it an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

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