

### Source

Mouse monoclonal antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with Nucleocapsid Protein F(ab')<sub>2</sub>.

### 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.

>90% as determined by SEC-MALS.

### 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.*

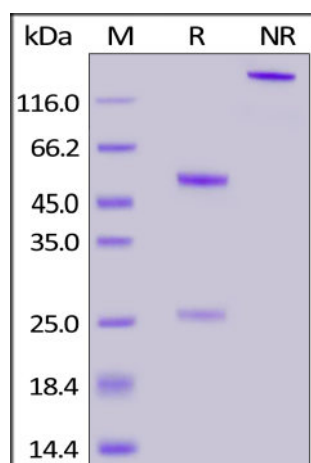
This product is stable after storage at:

- 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.*

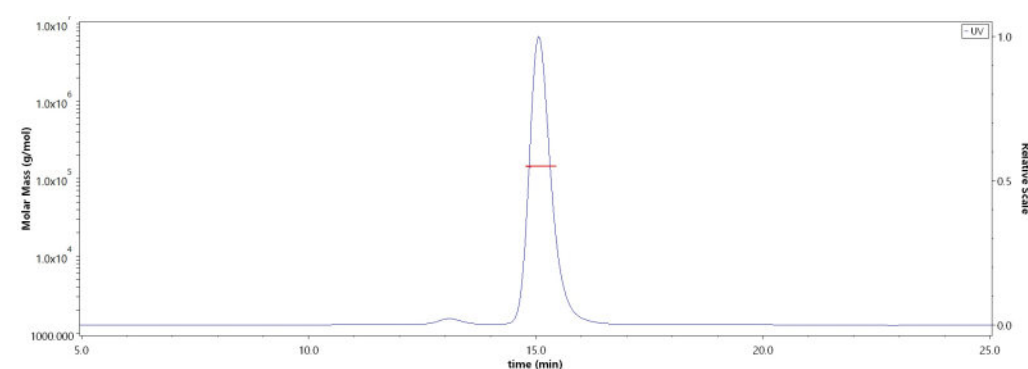
### SDS-PAGE



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%.

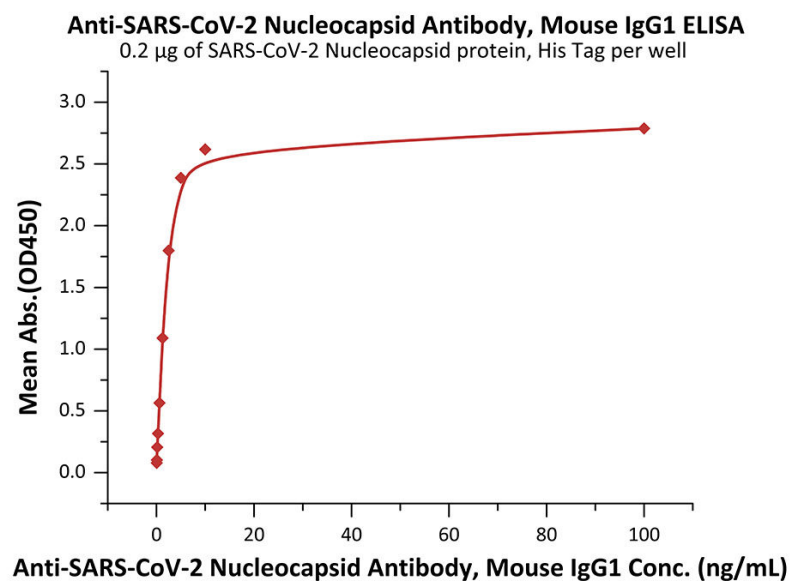
### Bioactivity-ELISA

### SEC-MALS



The purity of Anti-SARS-CoV-2 Nucleocapsid Antibody, Mouse IgG1 (Cat. No. NUN-S60) was more than 90% and the molecular weight of this protein is around 135-150 kDa verified by SEC-MALS.

[Report](#)



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-S60) with a linear range of 0.04-2.5 ng/mL (QC 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.

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.