Datasheet for ABIN6953177

anti-SARS-CoV-2 Nucleocapsid antibody

2 Images

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Human
Clonality:	Monoclonal
Application:	ELISA, SDS-PAGE (SDS)

Product Details

Purpose:	Anti-SARS-CoV-2 Nucleocapsid Antibody, Human IgG1
Isotype:	IgG1
Characteristics:	Anti-SARS-CoV-2 Nucleocapsid Antibody, Human IgG1 (ABIN6953177) is isolated from a SARS-CoV-2 infected patient and is recombinantly produced from human 293 cells (HEK293).
Purity:	> 95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N Products)
Target Type:	Viral Protein
Background:	Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a

Target Details

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.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 . Normally trehalose is added as protectant before lyophilization.
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution.

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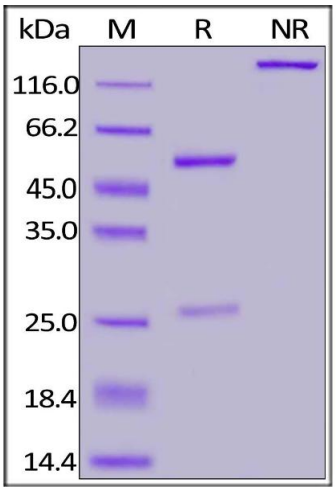
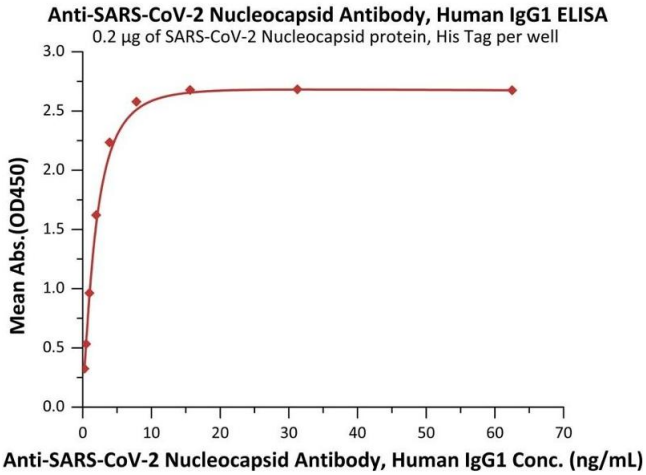


SDS-PAGE

Image 1. Anti-SARS-CoV-2 Nucleocapsid Antibody, Human IgG1 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .



ELISA

Image 2. Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (Cat. No. ABIN6952460) at 2 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody, Human IgG1 (Cat. No. ABIN6953187) with a linear range of 0.2-2 ng/mL (QC tested).

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