



## Human Anti-SARS-CoV-2 Nucleocapsid Chimeric monoclonal antibody, clone DI26 (DMABB-JX646)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Product Overview	This antibody is a chimeric monoclonal antibody recombinantly expressed from CHO cells which combines the variable region of a mouse monoclonal antibody with human IgG1 condomain. The mouse monoclonal antibody was obtained from a mouse immunized with recombinant SARS-CoV-2 Nucleocapsid Protein.			
Specificity	This product can recognize SARS-CoV-2 Nucleocapsid protein. As verified by binding test with N-NTD and N-CTD protein, this antibody can only bind to N-CTD (AA 255 - 364). It can also bind multiple N protein variants with similar affinity as compared to the wild type N protein.			
Target	N-CTD			
Isotype	lgG1			
Source/Host	Mouse			
Species Reactivity	SARS-CoV-2			
Clone	DI26			
Purification	Protein A affinity purified			
Conjugate	Unconjugated			
Applications	We recommend the following as antibody pair to detect SARS-CoV-2 nucleocapsid protein in sandwich ELISA or LFIA assay:  DMABB-JX645 - DMABB-JX646  Each laboratory should determine an optimum working titer for use in its particular application.  Other applications have not been tested but use in such assays should not necessarily be			

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excluded.

Epitope	N-CTD (AA 255 - 364)
Format	Purified, Liquid
Concentration	Lot specific
Size	1 mg
Buffer	0.2 μm filtered solution in PBS, pH7.4
Preservative	None
Storage	For short-term storage, store at 2-8°C. For long-term storage, aliquot and store at -70°C. Avoid multiple freeze-thaw cycles.

## **BACKGROUND**

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Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool

## Keywords

SARS-CoV-2; SARS-CoV-2 N Protein; SARS-CoV-2 NP; SARS-CoV-2 Nucleocapsid Protein