Data Sheet (Cat.No.TMAY-02961)

TargetMol

Anti-SARS-CoV-2 Nucleocapsid Antibody (7Q136)

Product Details

Ig Type:	Mouse IgG1
Conjugation:	Unconjugated
Clone:	7Q136
Purification:	Protein A

Applications

Verified Activity:	Anti-SARS-CoV-2 Omicron (B.1.1.529) Nucleocapsid mouse monoclonal antibody in 1 μg/mL. -Sample: Recombinant Protein 10 ng -Lane 1: SARS-COV-2 JN.1/BA.2.86 (Omicron) Nucleoprotein/NP Protein -Lane 2: SARS-COV-2 BQ.1/BQ.1.1 (Omicron) Nucleocapsid Protein -Lane 3: SARS-COV-2 BF.7 (Omicron) Nucleocapsid Protein -Lane 4: SARS-CoV-2 (BA.4) Nucleocapsid Protein -Lane 5: SARS-CoV-2 Nucleocapsid (P80R) Protein -Lane 6: SARS-CoV-2 Nucleocapsid (T205I) Protein -Lane 7: SARS-CoV-2 Nucleocapsid NTD Protein -Lane 8: SARS-CoV-2 Nucleocapsid CTD Protein -Lane 9: SARS-CoV-2 Nucleocapsid-His recombinant Protein -Lane 10: SARS-CoV-2 Nucleocapsid(D3L, R203K, G204R, S235F)-His Recombinant Protein -Lane 11: SARS-CoV-2 B.1.1.529 (Omicron) Nucleocapsid Protein -Secondary -Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution. -Developed using the ECL technique. -Performed under reducing conditions.
Application:	ELISA,LFA(Cap),WB
Recommended	WB: 1:1000-1:10000; ELISA(Cap): 1 mg/mL

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: SARS-CoV-2 Nucleocapsid Protein (TMPY-05664)
Antigen Species:	SARS-CoV-2

Research Background

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.

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