Anti-SARS-CoV-2 Nucleocapsid antibody, Rabbit mAb

Catalog No: #29627

Package Size: #29627-1 10ug #29627-2 100ug

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Anti-SARS-CoV-2 Nucleocapsid antibody, Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	DM22
Isotype	Rabbit IgG
Purification	Purified from cell culture supernatant by affinity chromatography
Applications	ELISA
Species Reactivity	SARS-CoV-2
Immunogen Description	Recombinant SARS-CoV-2 Nucleocapsid (Met1-Ala 419) produced by using E. coli
Conjugates	Unconjugated
Other Names	SARS-CoV-2 Nucleocapsid
Calculated MW	45kDa
Formulation	Preservative: 0.1% Procline 300 Constituents: 50% Glycerol; PBS,pH 7.4; 0.1% BSA
Storage	Store at -20°C for 15 months (Avoid repeated freezing and thawing)

Application Details

ELISA 1/5000-10000

Images

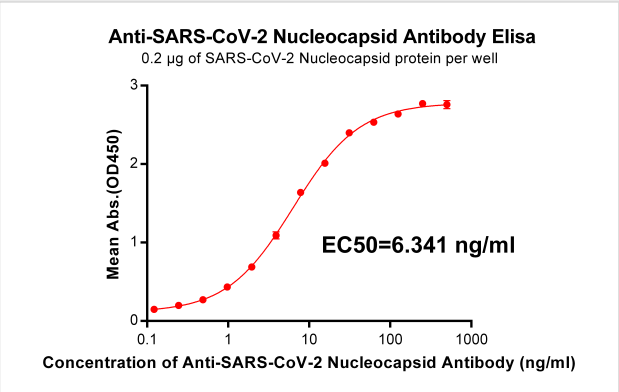

Figure 1. Elisa plate pre-coated by 2 μg/ml(100μl/well) SARS-CoV-2 Nucleocapsid protein, His Tag(Cat.No.PME100459) can bind Rabbit Anti-SARS-CoV-2 Nucleocapsid monoclonal antibody(clone:DM22) in a linear range of 0.24-62.5 ng/ml.

Background

Coronavirus contain most of nucleocapsid protein. Coronavirus nucleoproteins (N proteins) 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 nucleolus is the site of ribosome biogenesis and sequesters cell cycle regulatory complexes. Two of the major components of the nucleolus are fibrillarin and nucleolin. These proteins are involved in nucleolar assembly and ribosome biogenesis and act as chaperones for the import of proteins into the nucleolus. Regarding of the

conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is a tool for diagnostic.

Published Papers

Bogers Hein;DeKoninck Philip L J;Fraaij Pieter L A;Freeman Liv;Husen Marjolein F;Koopmans Marion P G;Reiss Irwin K M;Schoenmakers Sam;Trietsch Marjolijn D;van der Eijk Annemiek A;van der Meeren Lotte E;Verdijk Robert M el at., Unique Severe COVID-19 Placental Signature Independent of Severity of Clinical Maternal Symptoms, , (2021)

PMID:34452534

Michelle Broekhuizen;Marie-Louise van der Hoorn;Disha Vadgama;Michael Eikmans;Bojou J Neecke;Johannes J Duvekot;Pieter Fraaij;Irwin K M Reiss;Dana A M Mustafa;Lotte E van der Meeren;Sam Schoenmakers el at., Similar Spatial Expression of Immune-Related Proteins in SARS-CoV-2 Placentitis and Chronic Histiocytic Intervillositis., , (2025)

PMID:39821970

Note: This product is for in vitro research use only and is not intended for use in humans or animals.