

Rabbit anti-SARS-CoV-2 Nucleocapsid Protein mAb(DET)

Catalog No.: RM17617

Basic Information

Catalog No.
RM17617

Catagory
Elisa Antibody Kit

Application
ELISA

Product Information

Ig Type
Rabbit IgG

Purification
Affinity purification

Endotoxin Level
< 1.0 EU/μg of the protein by LAL method.

Storage
This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C.
Preservative:0.1%Braveds MB-1
Avoid repeated freeze-thaw cycles.

Formulation
Supplied as a 0.2um filtered solution in PBS with 0.1%Braveds MB-1,PH 7.4.

Contact

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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. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to 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 N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Immunogen Information

Immunogen
HK293 derived SARS-COV-2 Nucleocapsid
Ser2-Ala419
Accession #YP_009724397.2

Cross-Reactivity

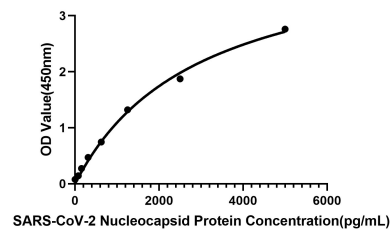
Has cross-reactivity in ELISA with
SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Cat# RP01281)
No cross-reactivity in ELISA with
MERS-CoV Nucleoprotein protein
HCoV-229E Nucleoprotein protein

Assay Applications

SARS-CoV-2 Nucleocapsid Protein Sanwich ELISA Immunoassay

	Recommended Concentration	Sample
ELISA Capture	1-4ug/mL	Rabbit anti-SARS-CoV-2 Nucleocapsid Protein mAb(CAP/DET)(Cat. No. RM17615)
ELISA Detection	0.05-0.2ug/mL	Rabbit anti-SARS-CoV-2 Nucleocapsid Protein mAb(DET)(Cat. No. RM17617)
Standard	78-5000pg/mL	Recombinant SARS-CoV-2 Nucleocapsid Protein with His tag(Cat. No. RP01281)

Validation Data



This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.