

SARS-CoV-2 Nucleocapsid Protein Antibody (DET)

Catalog NO.: RM17575

Basic Information

Catalog No

RM17575

Catagory

Primary antibody(DET)

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-Free.
Avoid repeated freeze-thaw cycles.

Formulation

Supplied as a 0.2um filtered solution in PBS,pH 7.4 containing Antibody at a concentration of 1mg/mL.

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

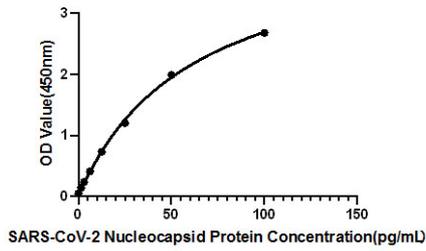
Assay Applications

SARS-COV-2 Nucleocapsid Sandwich Immunoassay

	Recommended Concentration	Sample
ELISA Capture	1-4ug/mL	SARS-CoV-2 Nucleocapsid Protein Antibody(CAP)(Cat. No. RM17574)
ELISA Detection	0.05-0.2ug/mL	SARS-CoV-2 Nucleocapsid Protein Antibody(DET)(Cat. No. RM17575)
Standard	1.56-100pg/mL	Recombinant SARS-COV-2 Nucleocapsid Protein with His tag(Cat. No. RP01264)

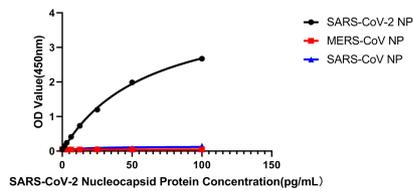
Validation Data

Detection of SARS-CoV-2 Nucleocapsid Protein by ELISA

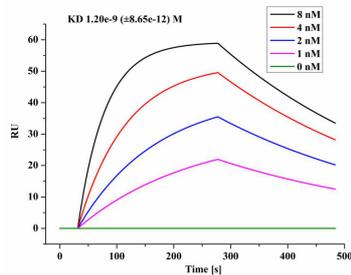


This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

Species specific binding to NP by Anti-SARS-CoV-2 NP antibody



No cross-reactivity in ELISA with MERS-CoV Nucleoprotein protein and SARS Coronavirus Nucleocapsid.



Cat. No. RM17574, captured on COOH chip can bind AB1 with an affinity constant of 1.20nM as determined in a LSPR assay .