Leader in Biomolecular Solutions for Life Science

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

Catalog No.: RM17574

Basic Information

Catalog No.
RM17574

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
Store at -20℃
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

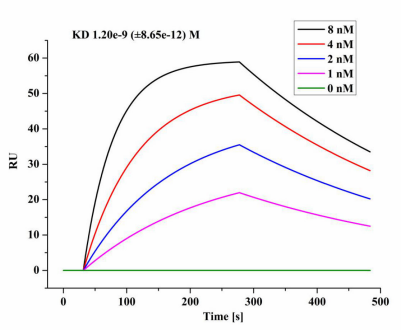
Has cross-reactivity in ELISA with
SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Cat# RP01281)
No cross-reactivity in ELISA with
MERS-CoV Nucleoprotein protein
HCoV-229E Nucleoprotein protein

Assay Applications

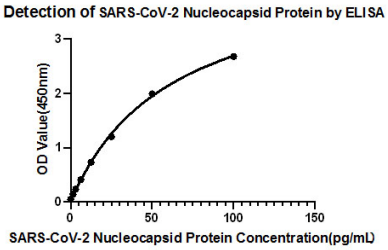
SARS-COV-2 Nucleocapsid Sandwich Immunoassay

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

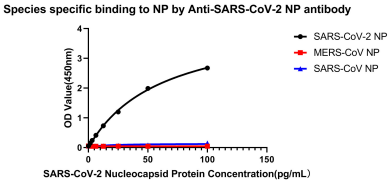
Validation Data



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



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



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