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

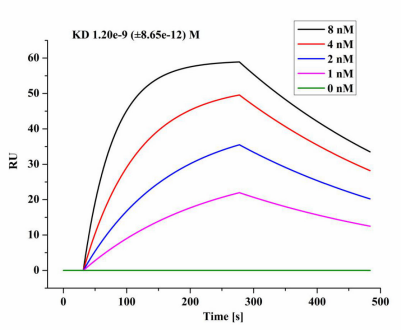
Has cross-reactivity in ELISA with
SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Cat# RP01281)
No cross-reactivity in ELISA with
MERS-CoV Nucleoprotein protein
HCoV-229E Nucleoprotein protein

## Assay Applications

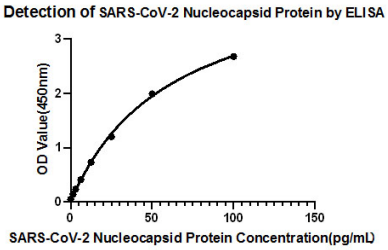
SARS-COV-2 Nucleocapsid Sandwich Immunoassay

| | 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) |

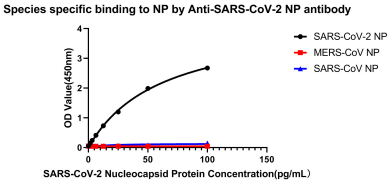
## Validation Data




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.