RM17584
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Anti-SARS-CoV-2 Nucleocapsid Control Antibody, Human MAb

Catalog No.: RM17584

Basic Information

Catagory
Matched Antibody Pair

Applications
Indirect ELISA

Product Information

Ig Type
Human IgG

Purification
Affinity purification

Endotoxin Level

Storage
Store unopened kit at 2-8 °C for1 week. If more than one week, please keep the components of the kit according to the instructions.Do not use past kit expiration date.
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