

RM17614

Leader in Biomolecular Solutions for Life Science



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

Catalog No.: RM17614

Basic Information

Catagory

Matched Antibody Pair

Applications

ELISA

Product Information

Ig Type

Rabbit IgG

Purification

Affinity purification

Endotoxin Level

Storage

Store unopened kit at 2-8 °C for 1 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% BSA, pH 7.4.

Contact



www.abclonal.com

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

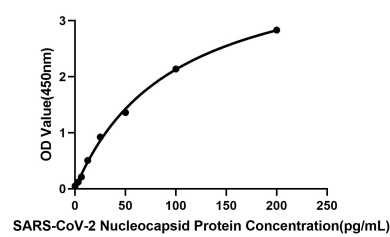
Has cross-reactivity in ELISA with SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Cat# RP01281). No cross-reactivity in ELISA with MERS-CoV Nucleoprotein protein or HCoV-229E Nucleoprotein protein.

Assay Applications

SARS-CoV-2 Nucleocapsid Protein Sandwich ELISA Immunoassay

	Recommended Concentration	Sample
ELISA Capture	1-4ug/mL	Rabbit anti-SARS-CoV-2 Nucleocapsid Protein mAb(CAP)(Cat. No. RM17614)
ELISA Detection	0.03-0.15ug/mL	Rabbit anti-SARS-CoV-2 Nucleocapsid Protein mAb(CAP/DET)(Cat. No. RM17615)
Standard	3.12-200pg/mL	Recombinant SARS-CoV-2 Nucleocapsid Protein with His tag(Cat. No. RP01264)

Validation Data



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