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SARS-CoV-2 (2019-nCoV) Nucleocapsid, WT & Ormicron Recognized Mouse mAb

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Catalog # AP94732

Product Information

Application	WB
Primary Accession	P0DTC9
Host	Mouse
Clonality	Monoclonal
Calculated MW	45626
Physical State	Liquid
Immunogen	Recombinant SARS-CoV-2 Nucleocapsid Protein
Epitope Specificity	1-419/419
Isotype	IgG1
Purity	affinity purified by Protein A
Buffer	0.01M PBS (pH7.4).
SUBCELLULAR LOCATION	Virion membrane ; Single-pass type I membrane protein ; Host endoplasmic reticulum-Golgi intermediate compartment membrane ; Single-pass type I membrane protein ; Host cell membrane ; Single-pass type I membrane protein ;Note: Accumulates in the endoplasmic reticulum-Golgi intermediate compartment, where it participates in virus particle assembly. Colocalizes with S in the host endoplasmic reticulum-Golgi intermediate compartment. Some S oligomers are transported to the host plasma membrane, where they may mediate cell-cell fusion.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The SARS-CoV-2 spike (S) protein is the target of vaccine design efforts to end the COVID-19 pandemic. Despite a low mutation rate, isolates with the D614G substitution in the S protein appeared early during the pandemic, and are now the dominant form worldwide. Here, we analyze the D614G mutation in the context of a soluble S ectodomain construct.

Additional Information

Gene ID	43740575
Other Names	Nucleoprotein {ECO:0000255|HAMAP-Rule:MF_04096}, N, Nucleocapsid protein {ECO:0000255|HAMAP-Rule:MF_04096}, NC {ECO:0000255|HAMAP-Rule:MF_04096}, Protein N {ECO:0000255|HAMAP-Rule:MF_04096}, N {ECO:0000255|HAMAP-Rule:MF_04096}
Dilution	WB=1:500-2000,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

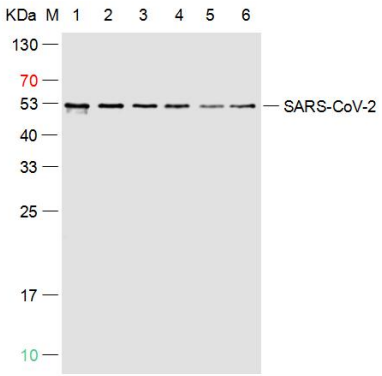
Protein Information

Name	N {ECO:0000255|HAMAP-Rule:MF_04096}
Function	Packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M (PubMed:33264373). Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication. Attenuates the stress granules formation by reducing host G3BP1 access to host mRNAs under stress conditions (PubMed:34901782, PubMed:36534661).
Cellular Location	Virion {ECO:0000255|HAMAP-Rule:MF_04096}. Host cytoplasm. Secreted Host extracellular space. Note=Probably associates with ER-derived membranes where it participates in viral RNA synthesis and virus budding. When located inside the virion, complexed with the viral RNA. Can be secreted by unconventional protein secretion (UPS) (PubMed:35921414). When secreted, can bind to host glycosaminoglycans on infected and non infected cells (PubMed:35921414). Found in host cytoplasmic stress granules (PubMed:34901782). {ECO:0000255|HAMAP-Rule:MF_04096, ECO:0000269|PubMed:34901782, ECO:0000269|PubMed:35921414}

Background

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Images



Sample:
Lane 1: Recombinant SARS-CoV-2 N Protein(Omicron(B.1.1.529) (P13L,E31del,R32del, S33del,R203K,G204R) at 100ng
Lane 2: Recombinant SARS-CoV-2 N Protein(Omicron(B.1.1.529) (P13L,E31del,R32del, S33del,R203K,G204R) at 50ng
Lane 3: Recombinant SARS-CoV-2 N Protein(Omicron(B.1.1.529) (P13L,E31del,R32del, S33del,R203K,G204R) at 25ng
Lane 4: Recombinant SARS-CoV-2 N Protein(Omicron(B.1.1.529) (P13L,E31del,R32del, S33del,R203K,G204R) at 10ng
Lane 5: Recombinant SARS-CoV-2 N Protein(Omicron(B.1.1.529) (P13L,E31del,R32del, S33del,R203K,G204R) at 5ng
Lane 6: Recombinant SARS-CoV-2 N Protein(WT) at 10ng
Primary: Mouse Anti- SARS-CoV-2 N protein (AP94732) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size:45.3 kD

Observed band size:50 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.