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Anti-COVID-19 Nucleocapsid Protein Antibody

Rabbit polyclonal antibody to COVID-19 Nucleocapsid Protein
Catalog # AP61625

Product Information

Application	WB, E
Primary Accession	P0DTC9
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45626

Additional Information

Gene ID	43740575
Other Names	Nucleoprotein; Nucleocapsid protein; NC; Protein N
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of COVID-19 Nucleocapsid Protein. The exact sequence is proprietary.
Dilution	WB~~1:1000 E~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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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