

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

### Specification

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#### Anti-COVID-19 Nucleocapsid Protein Antibody - Product Information

Application	WB, E
Primary Accession	<a href="#">PODTC9</a>
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45626

#### Anti-COVID-19 Nucleocapsid Protein Antibody - Additional Information

**Gene ID** 43740575

#### Other Names

Nucleoprotein; Nucleocapsid protein; NC; Protein N

#### Target/Specificity

Recognizes COVID-19 Nucleocapsid Protein.

#### 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

#### Anti-COVID-19 Nucleocapsid Protein Antibody - 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/34901782), PubMed: [36534661](http://www.uniprot.org/citations/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}

### **Anti-COVID-19 Nucleocapsid Protein Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-COVID-19 Nucleocapsid Protein Antibody - Images**

### **Anti-COVID-19 Nucleocapsid Protein Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of COVID-19 Nucleocapsid Protein. The exact sequence is proprietary.