

## COVID-19 Nucleocapsid Protein polyclonal antibody

Catalog: BS67276

Host: Rabbit

Reactivity: COVID-19

### BackGround:

The cause of the COVID-19 pandemic is a novel and highly pathogenic coronavirus, termed SARS-CoV-2 (severe acute respiratory syndrome coronavirus-2). SARS-CoV-2 is a member of the Coronaviridae family of viruses. The genome of SARS-CoV-2 is relatively large and encodes up to 29 open reading frames (ORFs). These include ORF1a and ORF1b (further processed into 16 non-structural proteins), 9 accessory proteins, and 4 canonical structural proteins: spike (S), envelope (E), membrane (M), and nucleocapsid (N). The nucleocapsid (N) protein is a phosphoprotein that plays a critical role in viral assembly. It binds to the viral genomic RNA, enabling its packaging into the ribonucleoprotein complex (RNP), and is the most abundant protein in the virion. Evidence from studies in SARS-CoV-2 and other coronaviruses suggest functions for nucleocapsid (N) protein beyond viral RNA packaging, including roles in viral replication and suppressing host immune responses to viral infection.

### Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 55 kDa

### Swiss-Prot:

P0DTC9

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB (1/1000 - 1/3000), ELISA: Use at an assay dependent dilution

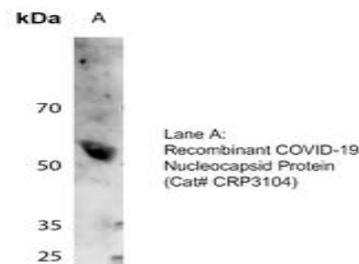
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes COVID-19 Nucleocapsid Protein.

### DATA:



Western blot analysis of COVID-19 Nucleocapsid Protein using Recombinant COVID-19 Nucleocapsid Protein (A).

### Note:

For research use only, not for use in diagnostic procedure.

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