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N
Rabbit Anti-SARS-CoV-2 Nucleocapsid pAb

Catalog No.	CPC529A CPC529B	**Quantity:**	50 µg 100 µg

Alternate Names: Nucleoprotein, Nucleocapsid protein, NC, Protein N

Description: Produced in rabbits immunized with purified, Recombinant SARS-CoV-2(2019-nCoV) Nucleocapsid protein.
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.

UniProt ID: P0DTC9

Immunogen: Recombinant SARS-CoV-2 Nucleocapsid protein

Specificity: Recognizes SARS-CoV-2 Nucleocapsid protein

Source: Rabbit

Isotype: IgG

Concentration: 1.0 mg/ml

Formulation: Sterile-filtered PBS, pH 7.5 preservative free.

Purification: Protein A affinity chromatography

Applications: This antibody may be used as the capture Ab when paired with CPC517 as the detecting antibody in a sandwich ELISA.

Application Notes: ELISA: 1:5,000 - 1:10,000
Western blot: suggested dilution 1:1,000 - 1:2,000

Storage & Stability: Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare working aliquots of undiluted product and store -20°C to -80°C.

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