

N

Human Anti-SARS-CoV-2 Nucleoprotein (Clone CR3018) mAb, Azide Free

Catalog No.	CDH002A CDH002B	Quantity:	200 µg 500 µg
Alternate Names:	Nucleoprotein, Nucleocapsid protein, NC, Protein N		
Description:	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The nucleocapsid phosphoprotein is a structural protein that binds to, protects the viral RNA genome and is involved in packaging 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. Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication. May modulate transforming growth factor-beta signaling by binding to the transcriptional modulator of the host, smad3. The N protein has been suggested as an antiviral drug target.		
UniProt ID:	P0DTC9		
Source:	Produced in mammalian cell culture, w/o viral particle		
Origin:	Recombinant antibody from a phage display library		
Specificity:	Nucleoprotein of SARS-CoV-2 (aa 11-19) which corresponds to the sequence RSAPRITFG of the N protein of SARS-CoV		
Species:	<i>Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)</i>		
Isotype:	Human IgG1 kappa		
Immunization::	Generated by sequencing peripheral blood lymphocytes of a patient exposed to the SARS-CoV.		
Clone:	CR3018		
Concentration:	1.0 mg/ml		
Formulation:	Sterile-filtered PBS, carrier and preservative free.		
Purification:	Affinity chromatography		
Applications:	ELISA		
Storage & Stability:	Stable at 2-8°C for 12 months. For longer storage, prepare aliquots and store at -20°C to -80°C.		

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