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Human Anti-SARS-CoV-2 Spike S1 Protein (Clone CR3022) mAb, Azide Free

Catalog No.	CDH001A CDH001B	Quantity:	200 µg 500 µg
Alternate Names:	Spike glycoprotein S1, Receptor binding domain Spike protein, RBD spike protein		
Description:	<p>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 spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. Spike glycoprotein is cleaved into the following 3 chains, Spike protein S1, Spike protein S2, Spike protein S2'.</p> <p>Spike protein S1 attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Binding to human ACE2 receptor and internalization of the virus into the endosomes of the host cell induces conformational changes in the Spike glycoprotein. Uses human Transmembrane Serine Protease 2 (TMPRSS2) for priming in human lung cells which is an essential step for viral entry. Surface glycoprotein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.</p>		
UniProt ID:	P0DTC2		
Gene ID:	43740568		
Hybridoma:	Phage display library		
Specificity:	S1 domain of the SARS-CoV Spike protein (aa318-510) as well as SARS-CoV-2 (COVID-19) Spike protein		
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:	CR3022		
Concentration:	1.0 mg/ml		
Formulation:	Sterile-filtered PBS, carrier and preservative free.		
Applications:	ELISA		
Storage & Stability:	Stable at 2-8°C for 12 months.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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