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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: 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'.
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.

UniProt ID: P0DTC2

Gene ID: 43740568

Origin: Recombinant antibody from a 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: *Severe acute respiratory syndrome coronavirus 2 (*SARS-CoV-2)

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.

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