

## Anti-S1 (SARS-CoV-2/COVID-19) Human Monoclonal Antibody

CATALOG NUMBER: SCV2-S1-h22, 100 µg

<b>Introduction</b>	The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019.  The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleoprotein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.
<b>Applications</b>	Western blot (1:1,000-1:2,000) and ELISA (1:5,000-10,000). May be used for other applications.
<b>Description</b>	Human monoclonal anti-spike S1 (SARS-CoV-2/COVID-19) antibody
<b>Immunogen</b>	Recombinant SARS-CoV-2 spike S1 protein. (The original CR3022 antibody was generated by sequencing peripheral blood lymphocytes of a patient exposed to the SARS-CoV).
<b>Specificity</b>	Reacts with S1 and Spike RBD domain protein from coronavirus SARS-CoV-2. Cross reaction to S1 and RBD domain from other coronavirus not tested.
<b>Purification</b>	Affinity chromatography
<b>Clone</b>	CR3022, human recombinant monoclonal
<b>Isotype</b>	Human IgG1
<b>Storage</b>	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous.
<b>Concentration</b>	1 µg/µl in PBS, pH7.4

