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Anti-Spike RBD (SARS-CoV-2/COVID-19) Human Neutralizing Antibody

CATALOG NUMBER: SCV2-RBD-h12, 100 µg

Introduction	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 (RCB) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.
Applications	Western blot (1:1,000-1:2,000) and ELISA (1:5,000-10,000), May be used for other applications
Description	Human monoclonal anti-spike RBD (SARS-CoV-2/COVID-19) neutralizing antibody produced by in vitro XtenCHO cells
Immunogen	Recombinant SARS-CoV-2 spike S1 protein
Specificity	Reacts to SARS-CoV-2 Spike RBD and S1 protein. Cross-reaction to RBD domain and S1 from other coronavirus not tested.
Purification	Affinity chromatography
Isotype	Human IgG1, Clone#S300
Storage	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.
Concentration	1 µg/µl in PBS, pH7.4

