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S
Human Anti-SARS-CoV-2 Spike-RBD (Clone CV30) mAb

Catalog No.	CPC515A CPC515B	**Quantity:**	50 µg 100 µg
Alternate Names:	Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD		
Description:	Recombinant Human anti-SARS-CoV-2 Spike Protein Receptor Binding domain, Clone CV30, is expressed in XtenCHO. 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. Surface glycoprotein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.		
UniProt ID:	P0DTC2		
Immunogen:	Recombinant SARS-CoV-2 Spike-RBD protein		
Specificity:	Recognizes SARS-CoV-2 Spike-RBD protein		
Bioactivity:	EC_{50} = 115.7 ng/ml with SARS-CoV-2 Spike-RBD		
Source:	XtenCHO		
Isotype:	Human IgG		
Clone:	CV30		
Concentration:	1.0 mg/ml		
Formulation:	Sterile-filtered PBS, pH 7.5 preservative free.		
Purification:	Protein A affinity chromatography		
Applications:	ELISA: suggested dilution 1:5,000 - 1:10,000 Western blot: suggested dilution 1:1,000 - 1:2,000		
Storage & Stability:	Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare working aliquots of undiluted product and store -20°C to -80°C.		

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

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