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## Human Anti-SARS-CoV-2 Spike-RBD (CV30) Neutralizing mAb

<b>Catalog No.</b>	CPC515A CPC515B	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD, CV30		
<b>Description:</b>	<p>Neutralizing antibody CV30 was originally isolated from a patient infected with SARS-CoV-2, in complex with the receptor binding domain.</p> <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). 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.</p>		
<b>UniProt ID:</b>	P0DTC2		
<b>Origin:</b>	Isolated B-cells from a SARS-CoV-2 infected patient with confirmed neutralizing serum.		
<b>Specificity:</b>	Recognizes and binds the receptor binding domain (RBD) encoded by residues 319-591 of the SARS CoV 2 spike protein with a high affinity of 3.6nM and completely blocks the interaction between the RBD and ACE2 domain.		
<b>Bioactivity:</b>	EC <sub>50</sub> = 115.7 ng/ml with SARS-CoV-2 Spike-RBD		
<b>Source:</b>	XtenCHO		
<b>Isotype:</b>	Human IgG		
<b>Clone:</b>	CV30		
<b>Concentration:</b>	1.0 mg/ml		
<b>Formulation:</b>	Sterile-filtered PBS, pH 7.5 preservative free.		
<b>Purification:</b>	Protein A affinity chromatography		
<b>Applications:</b>	<p>Neutralizing</p> <p>ELISA: suggested dilution 1:5,000 - 1:10,000</p> <p>Western blot: suggested dilution 1:1,000 - 1:2,000</p>		
<b>Storage &amp; Stability:</b>	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.		

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