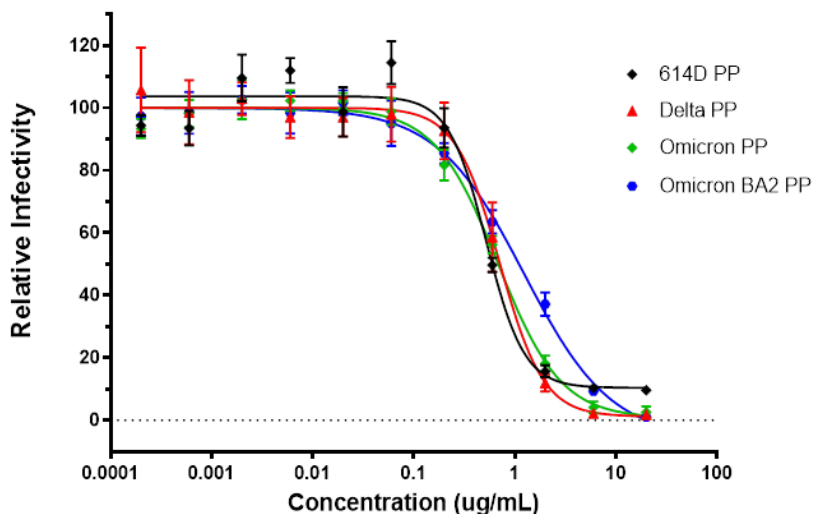


## Anti-SARS-CoV-2 (Omicron Variants) Neutralizing Antibody

CATALOG NUMBER: SCV2-S-400m, 100 µg

<b>Introduction</b>	Severe acute respiratory syndrome coronavirus 2 (SARS CoV 2) is the virus that causes COVID-19 (coronavirus disease 2019), the respiratory illness responsible for the COVID-19 pandemic..  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>Description</b>	Human monoclonal anti-spike (SARS-CoV-2/Omicron) neutralizing antibody, expressed from XtenCHO cells
<b>Applications</b>	Neutralization assay, ELISA, and other applications
<b>Specificity</b>	Reacts to the spike RBD and the spike proteins of the Omicron variant and other variants of SARS-CoV-2.
<b>Purification</b>	Affinity chromatography
<b>Concentration</b>	1 µg/µl in PBS, pH7.4
<b>Isotype</b>	IgG1-kappa
<b>Storage</b>	Store at -20 °C; Stable for 6 months from the date of shipment when kept at 4 °C. Non-hazardous.



**Figure 1. Pseudoviral particle (PP) infection assay – Dose Response Curves for the neutralizing antibody SCV2-S-400m.** HEK293-ACE2 cells infected with SARS-CoV-2 pseudoviral particles under a serial diluted amount of SCV2-S-400m.

**Legend:**  
 PP: pseudoviral particles;  
 614D PP: [SARS-CoV-2 614D PP](#);  
 Delta PP: [SARS-CoV-2 Delta Variant PP](#);  
 Omicron PP: [SARS-CoV-2 Omicron Variant PP](#);  
 Omicron BA2 PP: [SARS-CoV-2 Omicron BA.2 Variant PP](#).

	614D	Delta	Omicron	BA2
Bottom	10.38	1.171	0.6096	-5.977
Top	103.7	100.0	99.97	100.0
LogIC50	-0.2805	-0.1516	-0.1678	0.09019
HillSlope	-2.318	-1.997	-1.390	-1.008
IC50	0.5241	0.7054	0.6796	1.231
Span	93.31	98.84	99.36	106.0