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

CATALOG NUMBER: SCV2-S-400m, 100 µg

Introduction	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.
Description	Human monoclonal anti-spike (SARS-CoV-2/Omicron) neutralizing antibody, expressed from XtenCHO cells
Applications	Neutralization assay, ELISA, and other applications
Specificity	Reacts to the spike RBD and the spike proteins of the Omicron variant and other variants of SARS-CoV-2.
Purification	Affinity chromatography
Concentration	1 µg/µl in PBS, pH7.4
Isotype	IgG1-kappa
Storage	Store at -20 °C; Stable for 6 months from the date of shipment when kept at 4 °C. Non-hazardous.

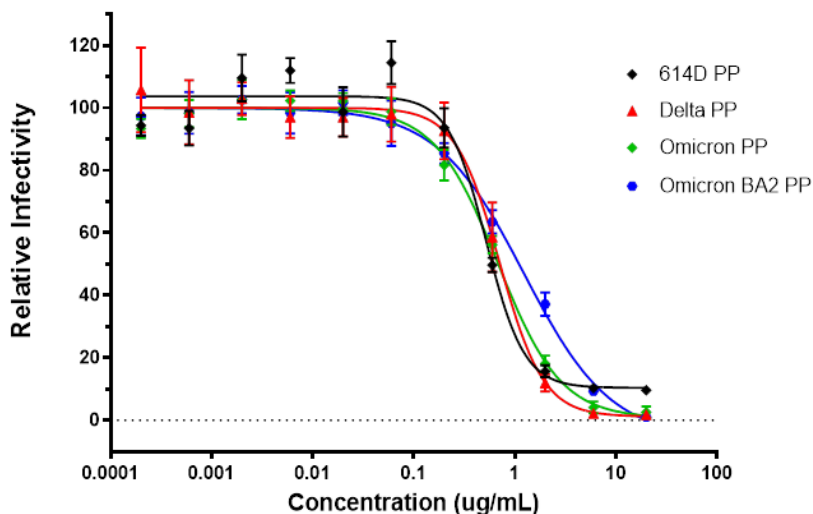


Figure 1. Pseudoviral particle (PP) infection assay – Dose Response Curves for the neutralizing antibody SCV2-S-400m. HEK293-ACE2 cells infected with SARS-CoV-2 pseudoviral particles under a serial diluted amount of SCV2-S-400m.

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