

## Product Datasheet

# SARS-CoV-2 (COVID-19) Spike S2 Single Domain Antibody [P1G5] (orb1274188)

<b>Catalog Number</b>	orb1274188
<b>Category</b>	Antibodies
<b>Description</b>	SARS-CoV-2 (COVID-19) Spike S2 Single Domain Antibody [P1G5]
<b>Target</b>	S
<b>Clonality</b>	Recombinant
<b>Species/Host</b>	Camelus
<b>Isotype</b>	sdAb
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Virus
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	batch dependent
<b>Buffer/Preservatives</b>	SARS-CoV-2 (COVID-19) Spike S2 Antibody is supplied in PBS.
<b>Purification</b>	SARS-CoV-2 (COVID-19) Spike S2 Antibody is affinity chromatography purified via Nickel column. Antibody is supplied as a His-tagged purified protein. It also contains a myc-tag for detection.
<b>Immunogen</b>	SARS-CoV-2 Spike S2 protein containing C-terminal His Tag. The protein was expressed in human 293 cells (HEK293). It contains amino acids Ser 686 - Pro 1213.
<b>Tested applications</b>	ELISA

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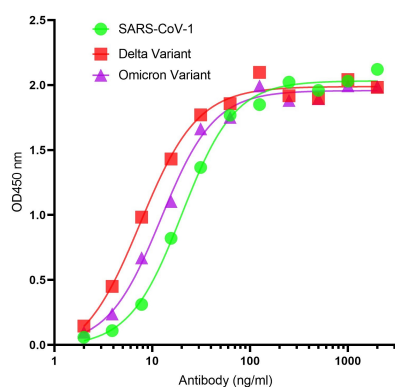
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<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	P1G5
<b>Modifications</b>	None
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Dry Ice Shipping</b>	<b>Please note: This product requires shipment on dry ice. A dry ice surcharge will apply.</b>
<b>Note</b>	For research use only
<b>NCBI</b>	<b>QHD43416</b>
<b>Expiration Date</b>	12 months from date of receipt.



ELISA Validation with Spike Trimer Proteins of SARS-CoV-2 Variants and SARS-CoV-1 Antibodies: SARS-CoV-2 (COVID-19) Spike S2 Antibody, orb1274188. A direct ELISA was performed using Spike trimer protein of SARS-CoV-2 Variants (Delta and Omicron) and SARS-CoV-1 as coating antigens at 1 µg/mL and the anti-SARS-CoV-2 (COVID-19) Spike S2 antibody (orb1274188) as the capture antibody, following by anti-cMyc-tag antibody (orb1239964) at 1 µg/mL. Secondary: Goat anti-mouse IgG HRP conjugate at 1:5000 dilution. Detection range is from 16 ng/mL to 2000 ng/mL.

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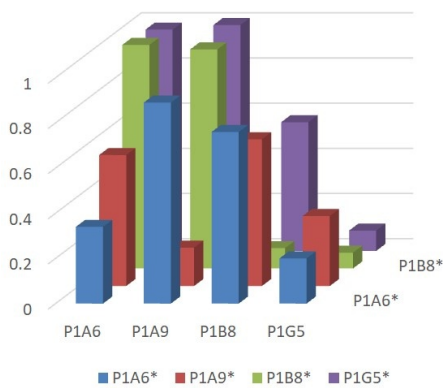
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**Epitope Mapping of four Spike S2 Antibodies by Direct Competitive ELISA** A direct competitive ELISA was developed for the epitope mapping using Spike trimer proteins of SARS-CoV-2 Delta variant at 1 µg/ml as the coating antigen and biotinylated Spike S2 single domain antibodies (sdAbs) as the competitive antibodies. The sdAb mixtures (biotinylated and unconjugated sdAbs) were added to ELISA plate and streptavidin-HRP was used to detect the captured biotinylated sdAbs. The assay suggests the antibodies bind to different epitopes of the Spike trimer.

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