

Product Datasheet

SARS-CoV-2 (COVID-19) Spike 681P Antibody (orb1239981)

Catalog Number	orb1239981
Category	Antibodies
Description	SARS-CoV-2 (COVID-19) Spike 681P Antibody
Target	S
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Virus
Form/Appearance	Liquid
Concentration	1 mg/mL
Buffer/Preservatives	SARS-CoV-2 (COVID-19) Spike Antibody (cleavage site) is supplied in PBS containing 0.02% sodium azide.
Purification	SARS-CoV-2 (COVID-19) Spike Antibody (cleavage site) is affinity chromatography purified via peptide column.
Immunogen	Anti-SARS-CoV-2 (COVID-19) Spike Antibody (cleavage site) (orb1239981) was raised against a peptide corresponding to 12 amino acids near the center of SARS-CoV-2 (COVID-19) Spike glycoprotein. The immunogen is located within 650-700 amino acids of SARS-CoV-2 (COVID-19) Spike protein.

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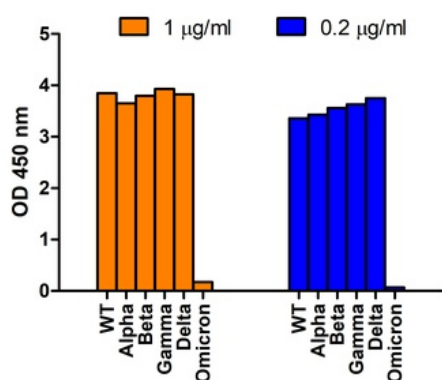
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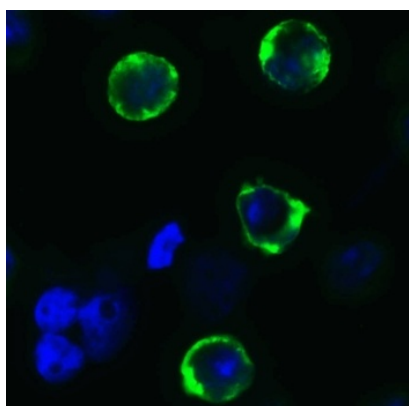
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UniProt ID	PODTC2
Tested applications	ELISA, IF, WB
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	QHD43416
Expiration Date	12 months from date of receipt.



SARS-Cov-2 Spike 681P Antibodies Specifically Do Not Recognize Omicron Variant Spike S1 Protein in an ELISA. Coating Antigen: SARS-CoV-2 spike S1 proteins WT, alpha variant (B.1.1.7), beta variant (B.1.351), gamma variant (P.1), delta variant (B.1.617.2), and omicron variant (B.1.1.529), 1 µg/mL, incubated at 4 °C overnight. Detection Antibodies: SARS-CoV-2 Spike 681P antibody, orb1239981, 1 µg/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1:20000, incubate at RT for 1 hr. SARS-CoV-2 spike 681P antibody (orb1239981) can detect spike S1 protein of all other variants, but not omicron variant.



Immunofluorescence Validation of SARS-CoV-2 (COVID-19) Spike (cleavage site) in 293 Transfected Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed Spike transfected 293cells labeling SARS-CoV-2 (COVID-19) Spike (cleavage site) with orb1239981 at 10 mg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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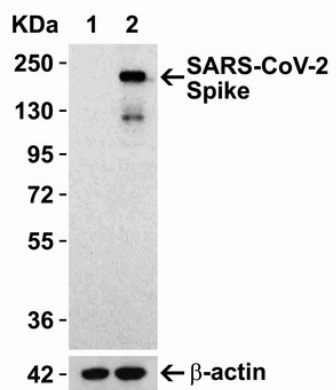
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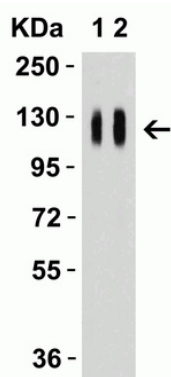
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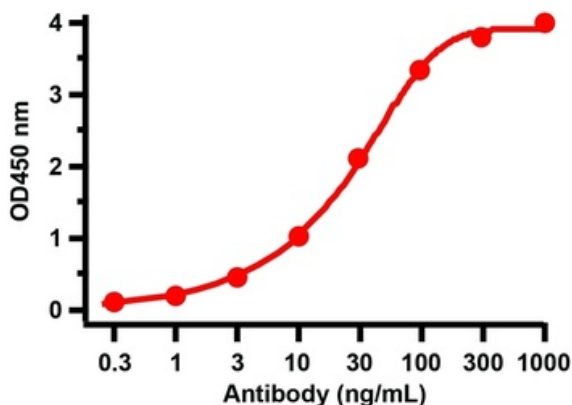
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Overexpression Validation in Spike Transfected 293 Cells. Loading: 10 µg per lane of 293 cell lysate. Antibodies: SARS-CoV-2 (COVID-19) Spike (cleavage site), orb1239981 (0.5 µg/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: WT 293 cells and Lane 2: SARS-CoV-2 Spike overexpressed 293 cells.



Western Blot Validation with SARS-CoV-2 (COVID-19) Spike S1 Recombinant Protein. Loading: 50 ng per lane of SARS-CoV-2 (COVID-19) Spike S1 recombinant protein (orb1227612). Antibodies: SARS-CoV-2 (COVID-19) Spike (cleavage site), orb1239981, 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 µg/mL and Lane 2: 2 µg/mL.



ELISA Validation with SARS-CoV-2 (COVID-19) Spike S1 Recombinant Protein. Antibodies: SARS-CoV-2 (COVID-19) Spike antibody (cleavage site), orb1239981 (1 µg/mL). A direct ELISA was performed using SARS-CoV-2 (COVID-19) Spike S1 recombinant protein (orb1227612) as coating antigen and the anti-SARS-CoV-2 (COVID-19) Spike antibody (cleavage site) as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.3 ng/mL to 1000 ng/mL.

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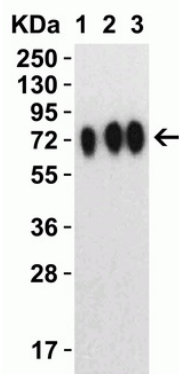
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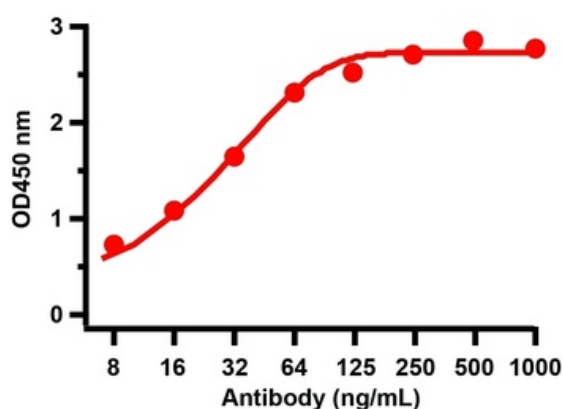
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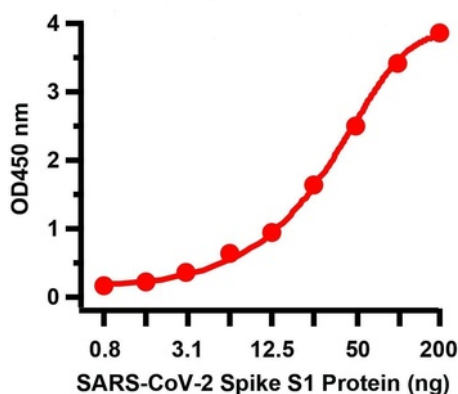
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Western Blot Validation with SARS-CoV-2 (COVID-19) Spike Recombinant Protein. Loading: 30 ng per lane of SARS-CoV-2 (COVID-19) Spike RBD+SD1+SD2 recombinant protein, orb1231586. Antibodies: SARS-CoV-2 (COVID-19) Spike (cleavage site), orb1239981, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 µg/mL, Lane 2: 2 µg/mL and Lane 3: 4 µg/mL.



ELISA Validation with SARS-CoV-2 (COVID-19) Spike Recombinant Protein. Antibodies: SARS-CoV-2 (COVID-19) Spike antibody (cleavage site), orb1239981. A direct ELISA was performed using SARS-CoV-2 (COVID-19) Spike RBD+SD1+SD2 recombinant protein, orb1231586, as coating antigen and the anti-SARS-CoV-2 (COVID-19) Spike antibody (cleavage site) as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 8 ng/mL to 1000 ng/mL.



ELISA Validation of SARS-CoV-2 Spike Antibody Pair. A sandwich ELISA was performed using the anti-SARS-COV-2 Spike S1 antibodies orb1239981 (10 µg/mL) as the capture antibody. Biotin-labeled anti-SARS-COV-2 Spike S1 antibodies orb1239026 (1 µg/mL) and streptavidin-HRP (0.1 µg/mL) were used for detection. Detection range is from 0.8 ng to 200 ng (SARS-CoV-2 Spike S1 Protein, orb1227612).

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