

# SARS-CoV-2 Delta Plus B.1.617.2.1 Variant Recombinant Spike Trimer His Tag

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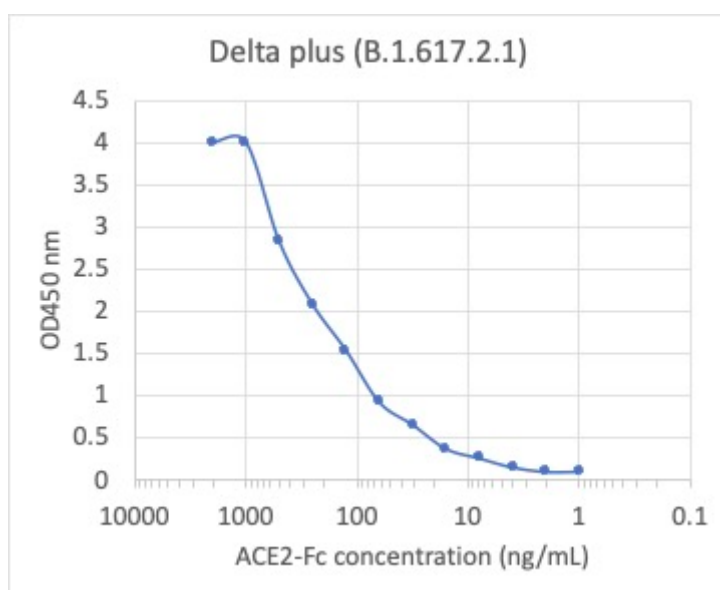
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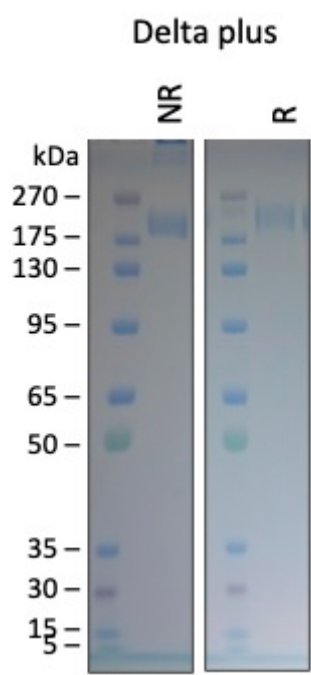
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Applications	Detection	Clonality	Isotype
ELISA	Anti-SARS-CoV-2 mAb	SARS-CoV-2	SARS-CoV-2

<b>Format:</b>	His tag
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat and other homologues.
<b>Formulation:</b>	1X PBS, 0.025% NaN <sub>3</sub>
<b>Preparation:</b>	His tag purification
<b>Reactivity:</b>	Other
<b>Recommended Usage:</b>	Control antigen for SARS-CoV-2 (COVID-19) diagnostic assays. Contains C-terminal His tag used for purification.
<b>Immunogen:</b>	N/A
<b>Description:</b>	
<b>References:</b>	<ol style="list-style-type: none"><li>1. Walls A.C. et al., 2019 Cell, 176: 1026-1039.</li><li>2. Tang T. et al., 2020, Antiviral Res., 178:10479.</li><li>3. Jiang S et al., 2022, Trends Immunol, 41:355-359.</li><li>4. Bosch BJ, et al., 2003, J Virol 77:8801-8811.</li></ol>



Concentration-response curves for binding of CoV2 spike protein to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100 uL of each spike trimer at 2 ug/mL in PBS at 4 °C overnight. The wells were washed with PBS and blocked with 200 µL of 1% BSA/PBS. ACE2-Fc was serially diluted from 2 µg/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100 µL of serially diluted ACE2-Fc at 37 °C for 1 hour. The wells were washed with PBS and the bound ACE2-Fc was detected with 100 µL of Peroxidase AffiniPure Goat Anti-Human IgG, Fcg fragment specific (Jackson Immuno Research 109-035-098)(1:5,000 in 1% BSA/PBS) at 37 °C for 1 hour. The wells were washed with PBS and the wells were developed with 100 µL of MB/E Ultra Sensitive, Blue, Horseradish Peroxidase Substrate (EMD Millipore ES022-500ml) at RT for 5 min. The reaction was stopped with 100 µL of 0.6N H2SO4 and the signals were read at 450 nm using a plate reader (Biotek).



SARS-CoV-2 spike protein variant purity by SDS-PAGE. Separation of SARS-CoV-2 spike recombinant protein (8xHis-Tag, 2 ug) reduced (R) and non-reduced (NR) condition followed by Coomassie blue staining shows >90% purity.