SARS-CoV-2 Epsilon B.1.427 Variant Recombinant Spike Trimer His Tag

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

Format: His tag

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.025% NaN3

Preparation: His tag purification

Reactivity: Other

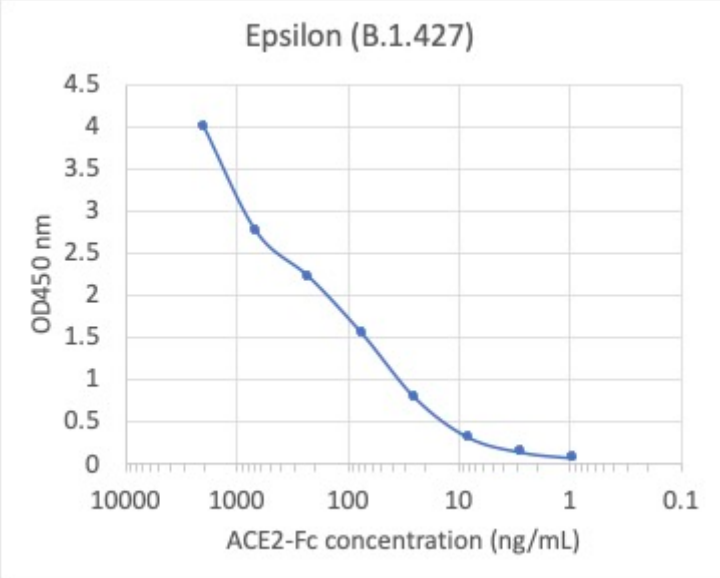
Recommended Usage: Control antigen for SARS-CoV-2 (COVID-19) diagnostic assays. Contains C-terminal His tag used for purification.

Immunogen: N/A

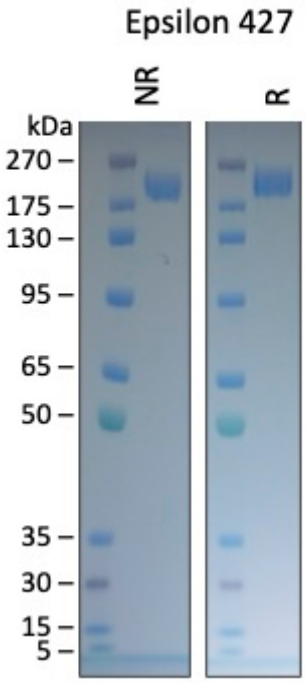
Description:

References:

1.Walls A.C. et al., Cell 2019, 176: 1026-1039.
2.Tang T. et al., 2020, Antiviral Res., 178:10479.
3.Jiang S et al., 2022, Trends Immunol, 41:355-359.
4.Bosch BJ, et al., 2003, J Virol 77:8801-8811.



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, Fc 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 Coommassie blue staining shows >90% purity.