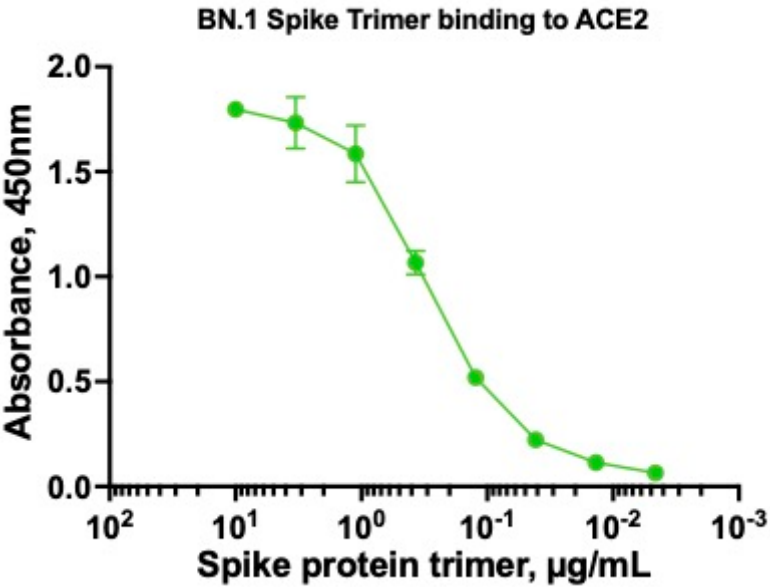
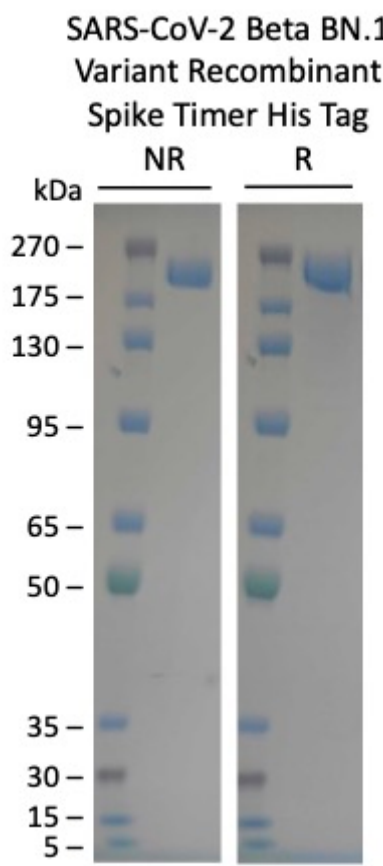


For Research Use Only. Not For Use In Diagnostic Procedures.

| 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: | 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 ACE2-Fc 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 at RT for 1 hour. Spike trimer was serially diluted from 10 µg/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100 µL of serially diluted spike trimer at RT for 1 hour. The wells were washed with PBS and the bound spike trimer was detected with 100 µL of Peroxidase AffiniPure Rabbit Anti-His Tag (Jackson Immuno Research 300-035-240)(1:5,000 in 1% BSA/PBS) at RT 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 Trimer, His Tag (BN.1/Omicron) on SDS-PAGE under non-reducing (NR) and reducing (R) conditions. The gel was stained with Coomassie G-250 per manufacturer instructions. The purity of the protein is greater than 95% and it is between 175 and 270 kDa.