# SARS-CoV-2 XBB.1/XBB.1.9 Omicron 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.

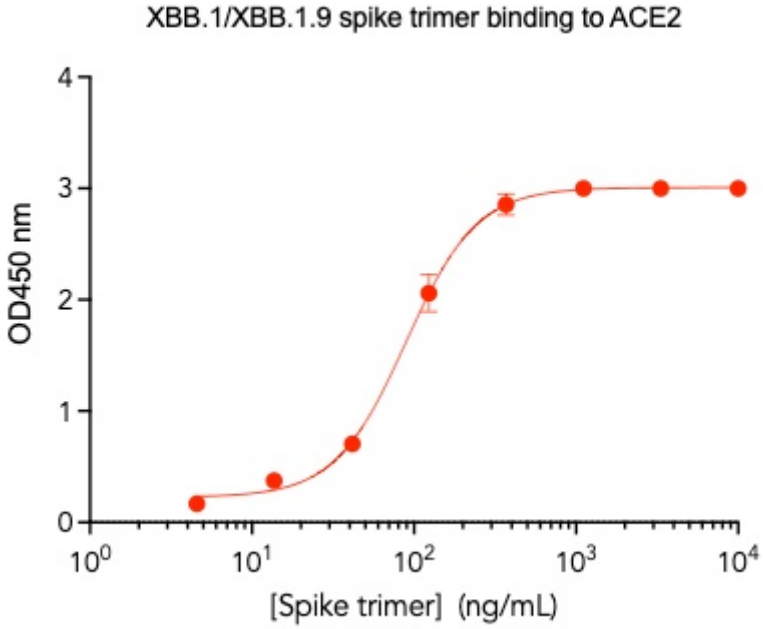
**Immunogen:** N/A

**Description:**

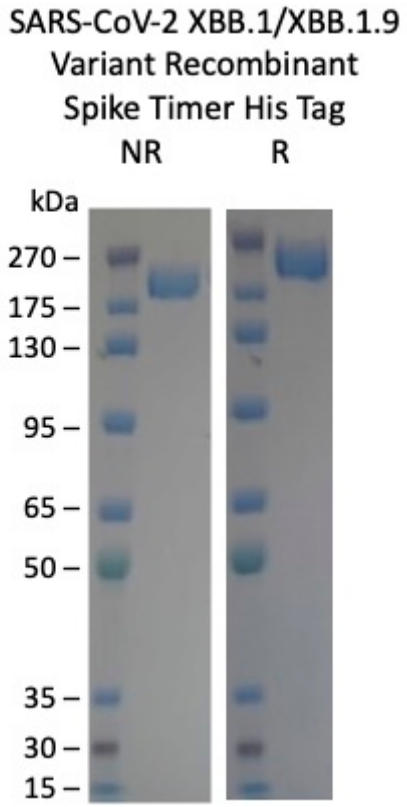
**References:**

1. Walls A.C. et al., 2019 Cell, 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.

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Concentration-response curves for binding of CoV2 spike protein XBB.1 variant 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 Trimer, His Tag (XBB.1/XBB1.9 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.