

# SARS-CoV-2 XBB.1/XBB.1.9 Omicron Variant recombinant Spike Trimer His Tag

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**Catalog:** #2648

**Store at:** 2-8°C

*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:** 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.

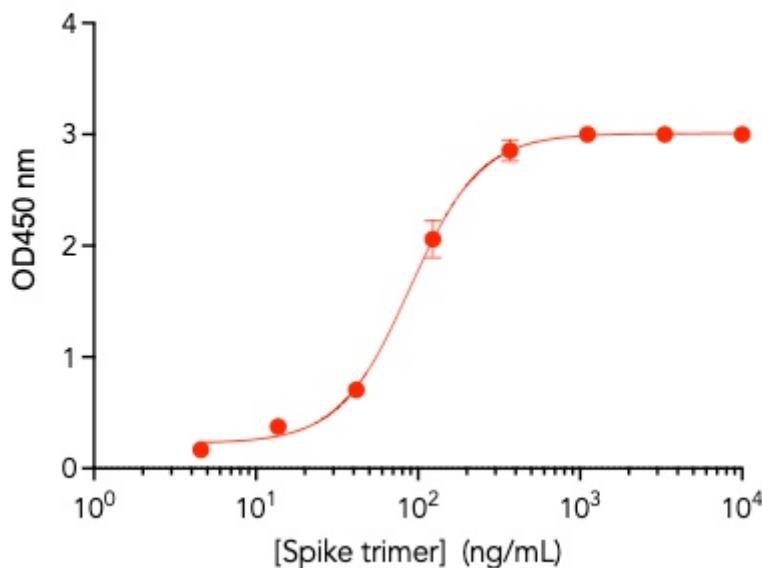
**Immunogen:** N/A

**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.

### XBB.1/XBB.1.9 spike trimer binding to ACE2



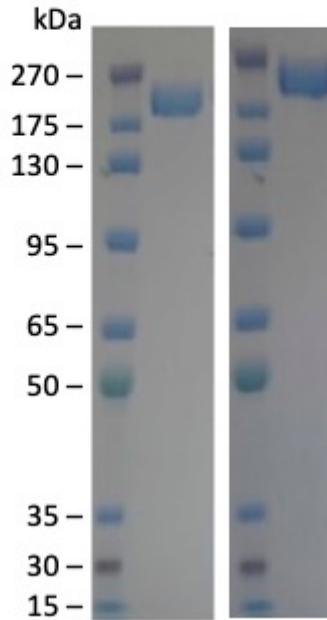
Concentration-response curves for binding of CoV2 spike protein XBB.1 variant to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100  $\mu$ L of each spike trimer at 2  $\mu$ g/mL in PBS at 4°C overnight. The wells were washed with PBS and blocked with 200  $\mu$ L of 1% BSA/PBS. ACE2-Fc was serially diluted from 2  $\mu$ g/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100  $\mu$ L 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  $\mu$ L of Peroxidase AffiniPure Goat Anti-Human IgG, Fc $\square$  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  $\mu$ L of MB/E Ultra Sensitive, Blue, Horseradish Peroxidase Substrate (EMD Millipore ES022-500ml) at RT for 5 min. The reaction was stopped with 100  $\mu$ L of 0.6N H<sub>2</sub>SO<sub>4</sub> and the signals were read at 450 nm using a plate reader (Bioteck).

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

Variant Recombinant

Spike Timer His Tag

NR                    R



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.