

# SARS-CoV-2 BA.2.75.2+V445P/F490S Omicron Variant Recombinant Spike Trimer His Tag

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**Applications**  
ELISA

**Detection**  
Anti-SARS-CoV-2 mAb

**Clonality**  
SARS-CoV-2

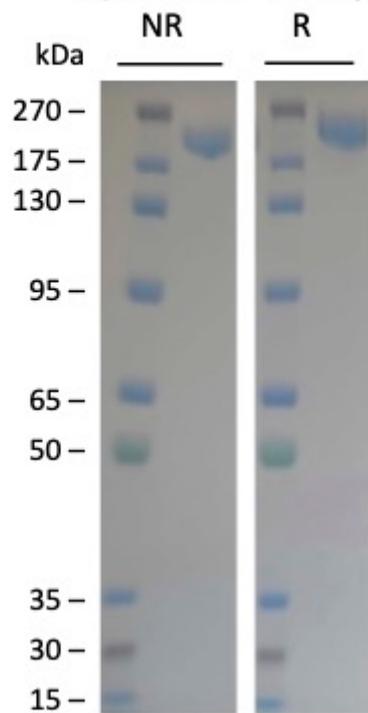
**Isotype**  
SARS-CoV-2

<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>

### SARS-CoV-2 BA.2.75.2 + V445P/F490S

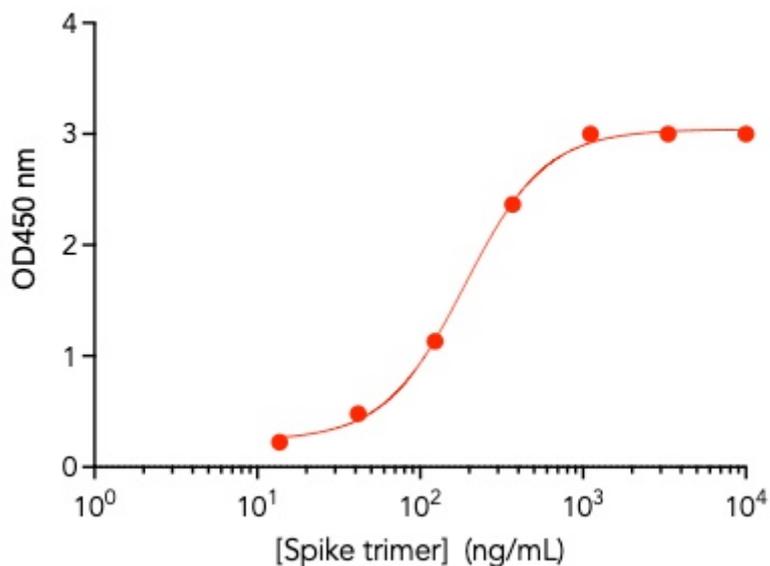
#### Variant Recombinant

#### Spike Trimer His Tag



SARS-CoV-2 Spike Trimer, His Tag (BA.2.75.2+V445P/F490S/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.

#### BA.2.75.2+V445P/F490S spike trimer binding to ACE2



Concentration-response curves for binding of CoV2 spike protein to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100  $\mu$ L of ACE2-Fc 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 at RT for 1 hour. Spike trimer was serially diluted from 10  $\mu$ g/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100  $\mu$ L 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  $\mu$ L 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  $\mu$ 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 H2SO4 and the signals were read at 450 nm using a plate reader (Biotek).