

Catalog: #2460

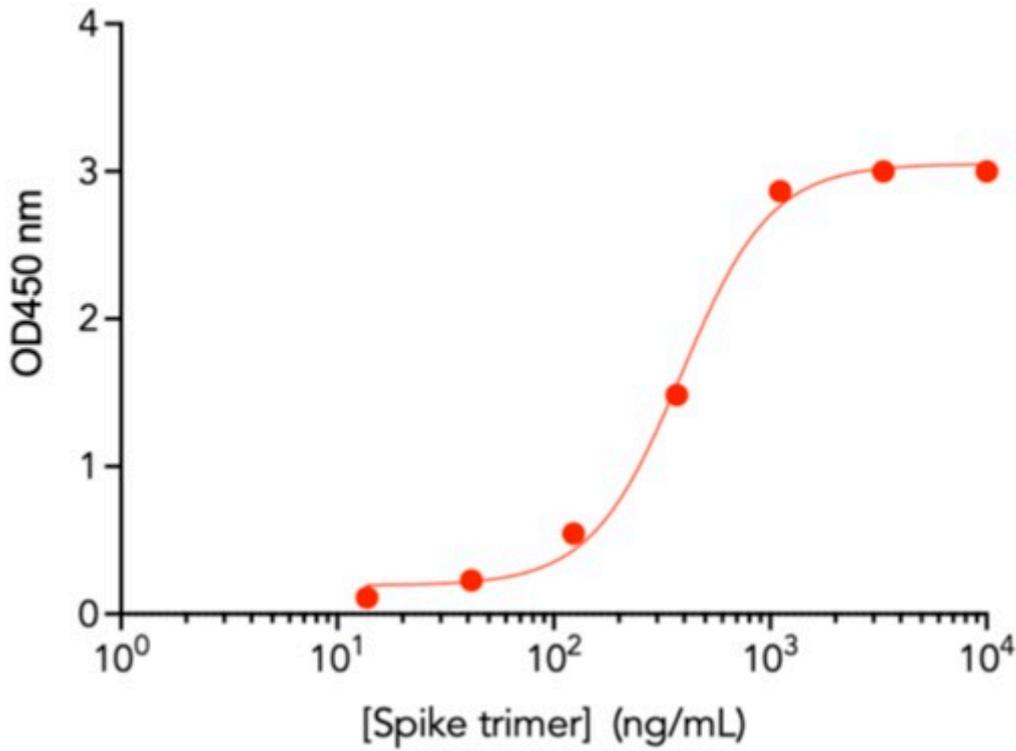
Store at: 2-8°C

*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

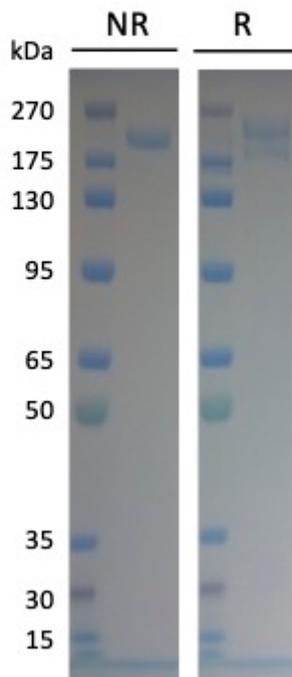
<b>Format:</b>	His tag
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat and other homologues.
<b>Formulation:</b>	1X PBS, 0.025% NaN <sub>3</sub>
<b>Preparation:</b>	His tag purification
<b>Reactivity:</b>	Other
<b>Recommended Usage:</b>	Control antigen for SARS-CoV-2 (COVID-19) diagnostic 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., Cell 2019, 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>

## BA.2 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 H<sub>2</sub>SO<sub>4</sub> and the signals were read at 450 nm using a plate reader (Biotek).

## SARS-CoV-2 Omicron BA.2 Variant Recombinant Spike Trimer His Tag



SARS-CoV-2 omicron recombinant variant BA.2 spike trimer His-Tag protein SDS-PAGE separation under non-reducing (NR) and reducing (R) conditions. The gel was stained with Coomassie Blue G-250 per manufacturer instructions. The purity of the protein is greater than 95% and it is between 175 and 270 kDa.