

# SARS-CoV-2 BQ.1 Omicron Variant Recombinant Spike Timer His Tag

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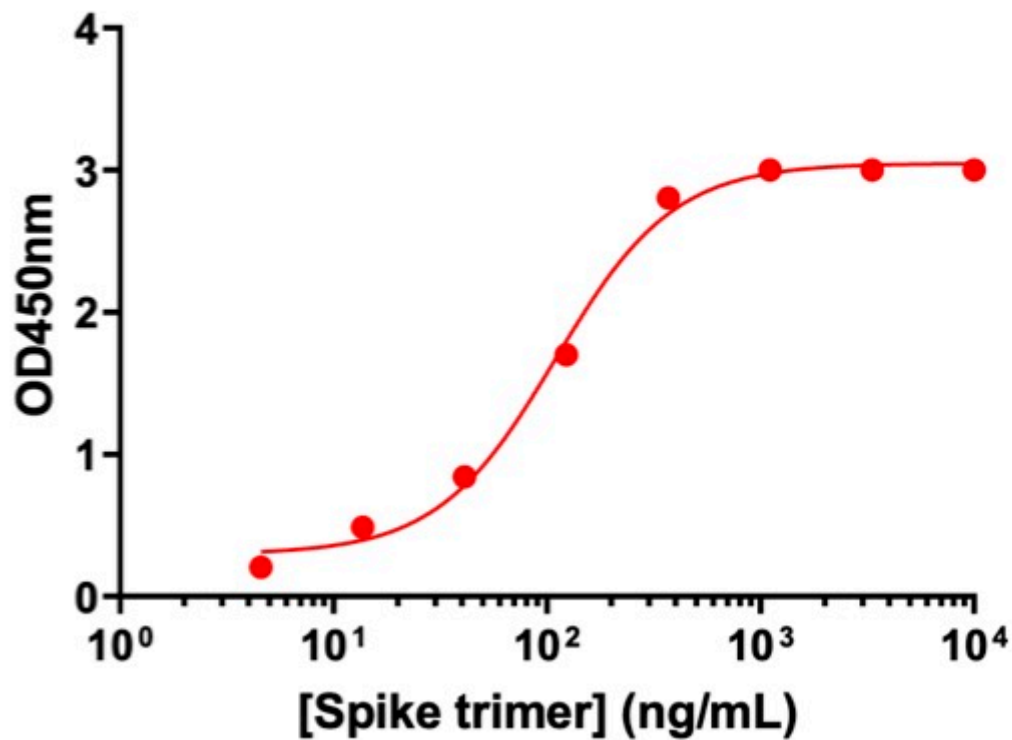
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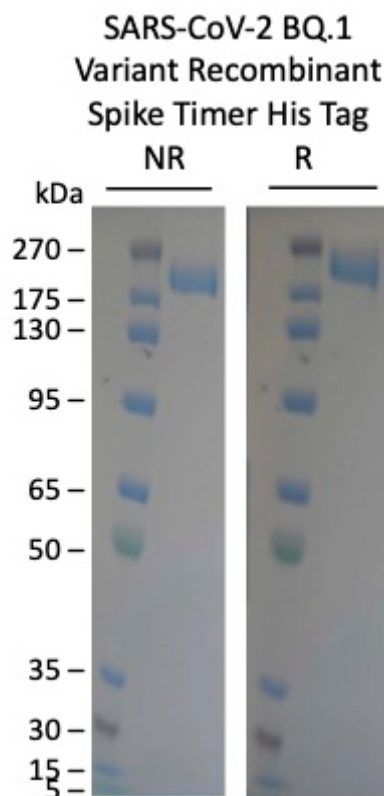
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Applications	Detection	Clonality	Isotype
ELISA	Anti-SARS-CoV-2 mAb	SARS-CoV-2	SARS-CoV-2
Format:	Unconjugated		
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.		
Formulation:	PBS, 0.025% NaN3		
Preparation:	His tag purification		
Reactivity:	Human		
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:	<div>1. Walls A.C. et al., 2019, Cell, 176: 1026-1039.</div> <div>2. Tang T. et al., 2020, Antiviral Res., 178:10479.</div> <div>3. Jiang S et al., 2022, Trends Immunol, 41:355-359.</div> <div>4. Bosch BJ, et al., 2003, J Virol 77:8801-8811.</div>		

## BQ.1 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 recombinant spike trimer His Tag protein BQ.1 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.