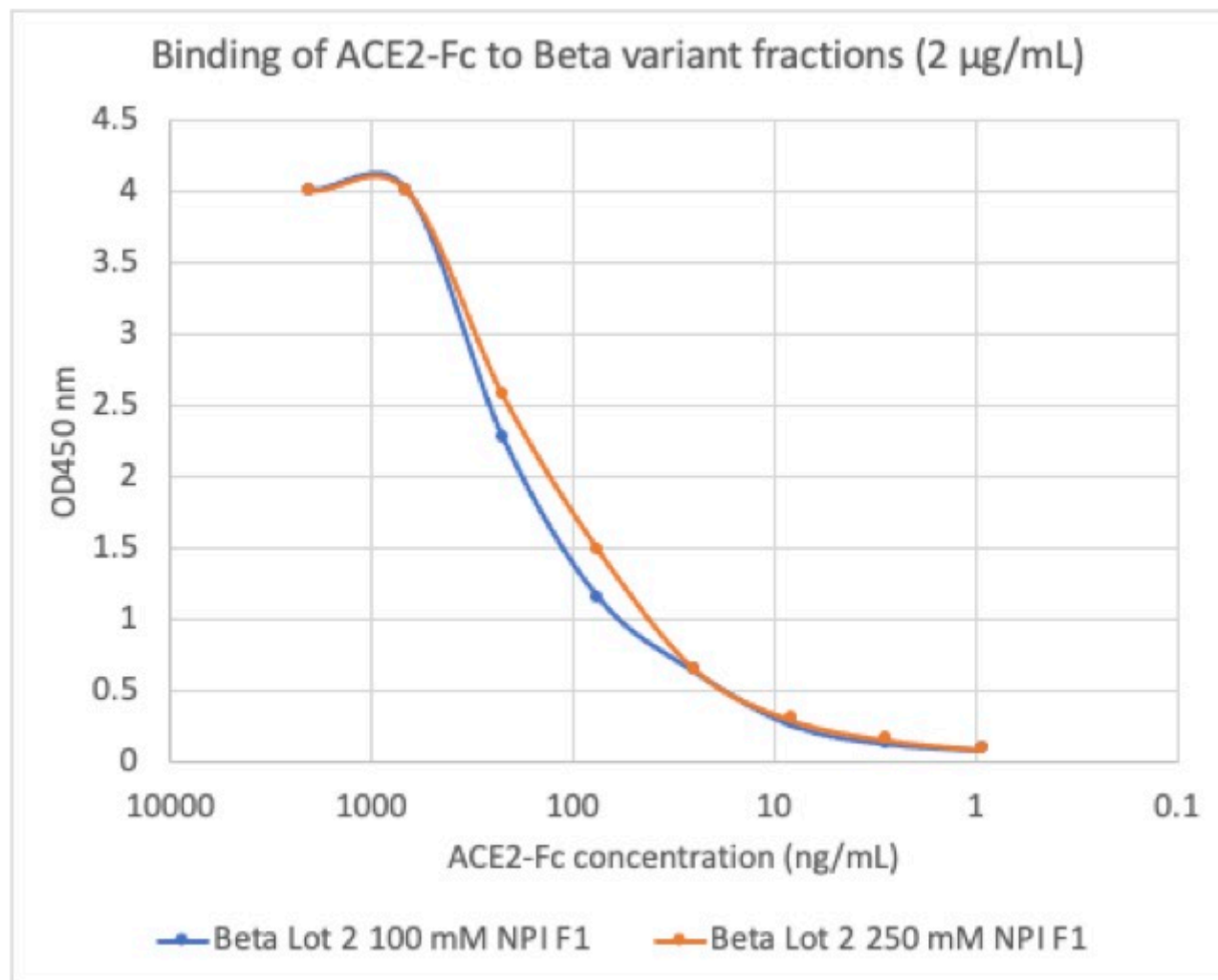


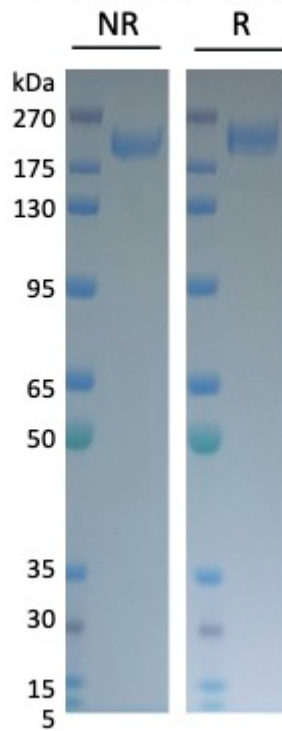
For Research Use Only. Not For Use In Diagnostic Procedures.

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.		



Concentration-response curves for binding of CoV2 spike protein variant beta to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100  $\mu\text{L}$  of each spike trimer at 2  $\mu\text{g/mL}$  in PBS at 4°C overnight. The wells were washed with PBS and blocked with 200  $\mu\text{L}$  of 1% BSA/PBS. ACE2-Fc was serially diluted from 2  $\mu\text{g/mL}$  in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100  $\mu\text{L}$  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  $\mu\text{L}$  of Peroxidase AffiniPure Goat Anti-Human IgG, Fc $\gamma$  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  $\mu\text{L}$  of MB/E Ultra Sensitive, Blue, Horseradish Peroxidase Substrate (EMD Millipore ES022-500ml) at RT for 5 min. The reaction was stopped with 100  $\mu\text{L}$  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 Beta (B.1.351)  
Variant Recombinant  
Spike Trimer His Tag**



SARS-CoV-2 recombinant spike trimer His Tag protein (BETA| B.1.351) 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.