

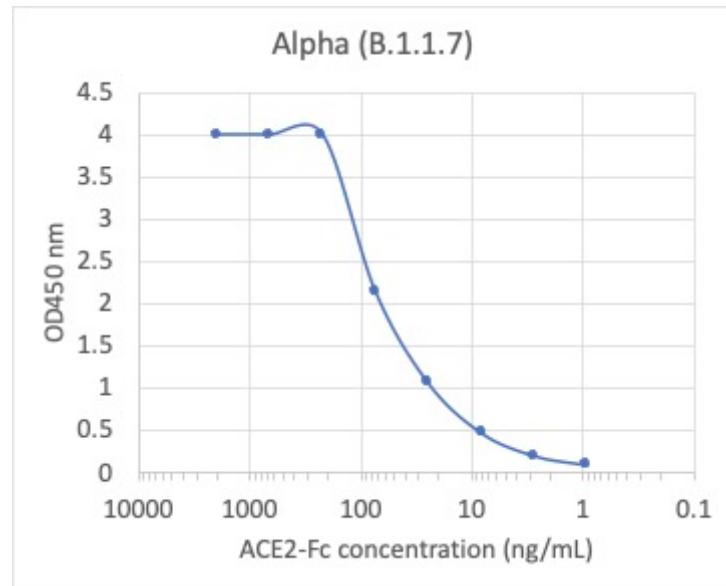
Catalog: #2581

Store at: 2-8°C

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

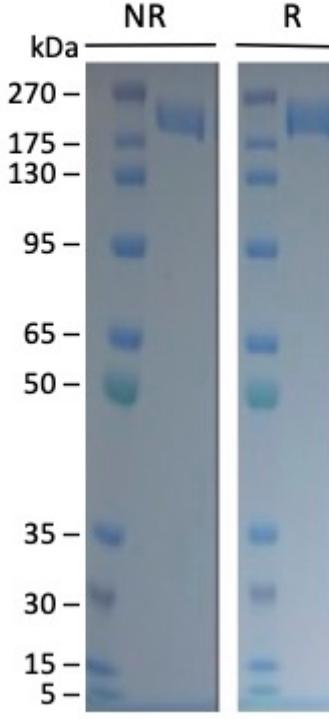
Applications	Detection	Clonality	Isotype
ELISA	Anti-SARS-CoV-2 mAb	SARS-CoV-2	SARS-CoV-2

<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% NaN3
<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>



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 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 (Biotek).

**SARS-CoV2 Alpha (B.1.1.7)  
Recombinant Spike  
Trimer Protein His Tag**



SARS-CoV-2 recombinant spike trimer His Tag protein (Alpha| B.1.1.7) 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.