

SARS-CoV-2 BF.7/BA.5.2.6/BF.11 Omicron Variant Recombinant Spike Trimer His Tag

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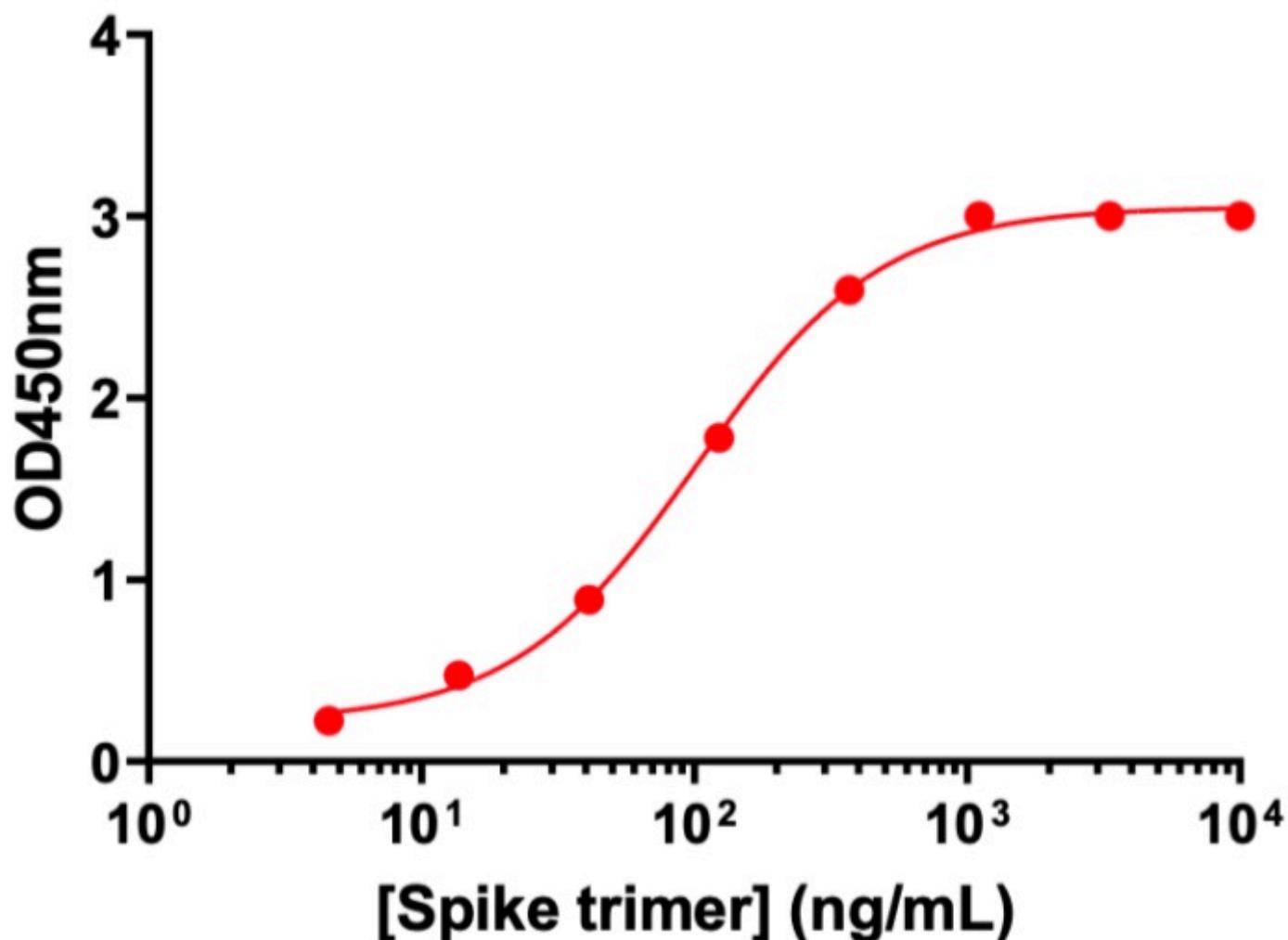
Store at: 2-8°C

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

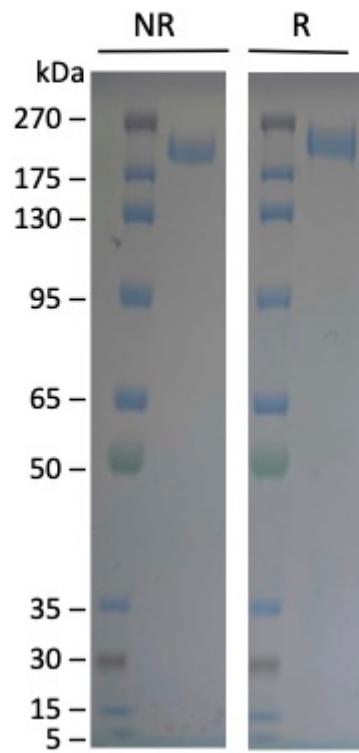
Applications	Detection	Clonality	Isotype
ELISA	Anti-SARS-CoV-2 mAb	SARS-CoV-2	SARS-CoV-2

Format:	Unconjugated
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.
Formulation:	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:	Coronaviruses belong to a large family of protein enveloped positive-strand RNA viruses that are known to cause upper respiratory, gastrointestinal, central nervous system diseases in animals and human (1). One of the main proteins on viral envelop is a heavily glycosylated spike (S) protein (2). Trimeric S protein is involved in host receptor angiotensin-converting enzyme 2 (ACE2) recognition and mediates viral entry into cells. It is the principle antigenic determinant of neutralizing antibodies (3). S protein is recognized by humoral immune response during infection leading to inflammatory response. Homotrimeric S protein is a class I fusion protein that forms large protrusions from the virus surface and undergoes a significant structural rearrangement to fuse the viral membrane with the host-cell membrane once it binds to the host receptor (4).
References:	<ol style="list-style-type: none">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.

BF.7/BA.5.2.6/BF.11 spike trimer binding to ACE2



SARS-CoV2 BF.7/BA.5.2.6/BF.11
Recombinant Spike
Trimer Protein His Tag



SARS-CoV-2 Spike Trimer, His Tag (BF.7/BA.5.2.6/BF.11 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.