SARS-CoV-1 B039 Recombinant Spike Trimer His Tag

www.abwizbio.com
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For Research Use Only. Not For Use In Diagnostic Procedures.

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

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-1 diagnostic assays. Contains C-terminal His tag used for purification.

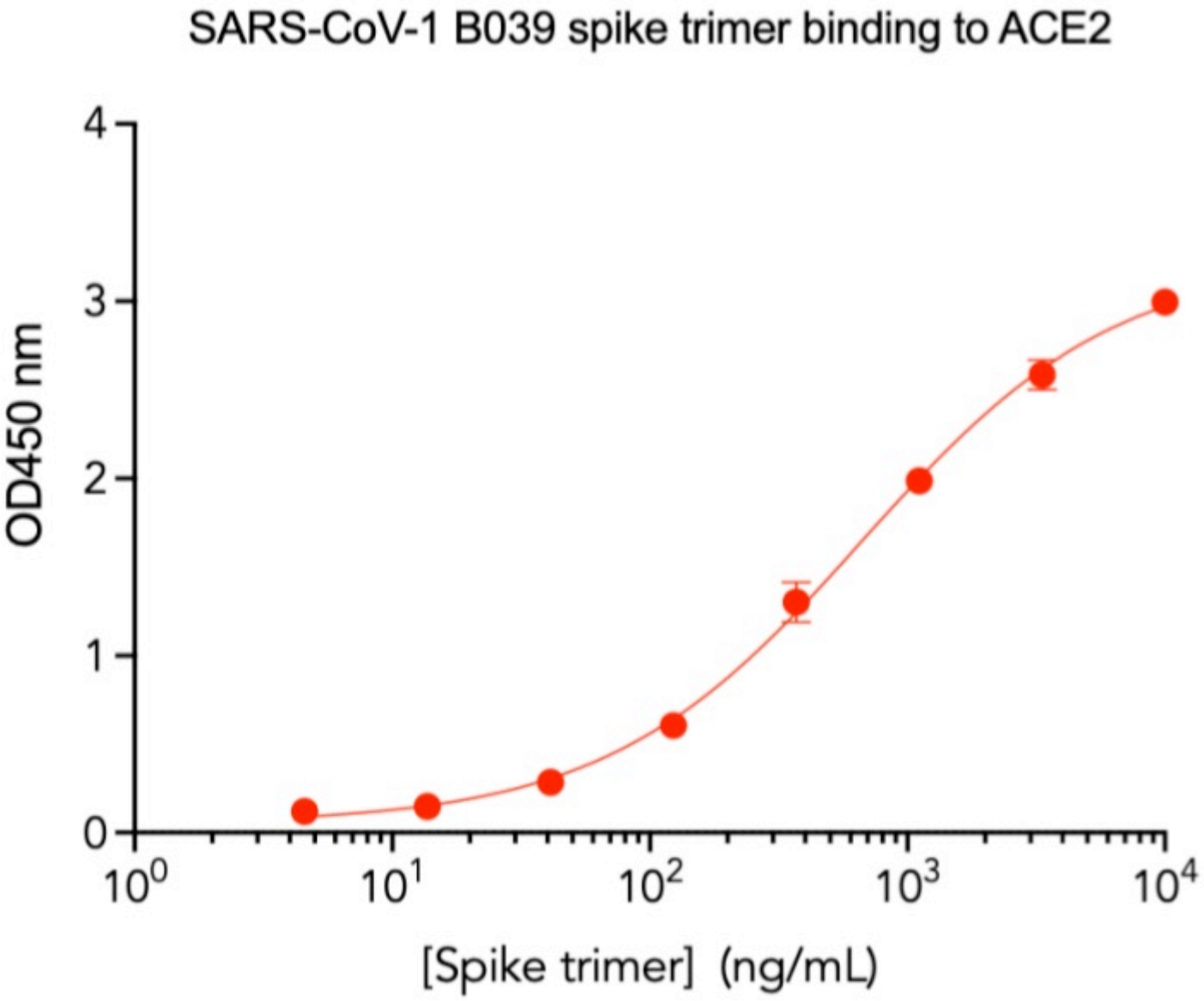
Immunogen: N/A

Description:

References:

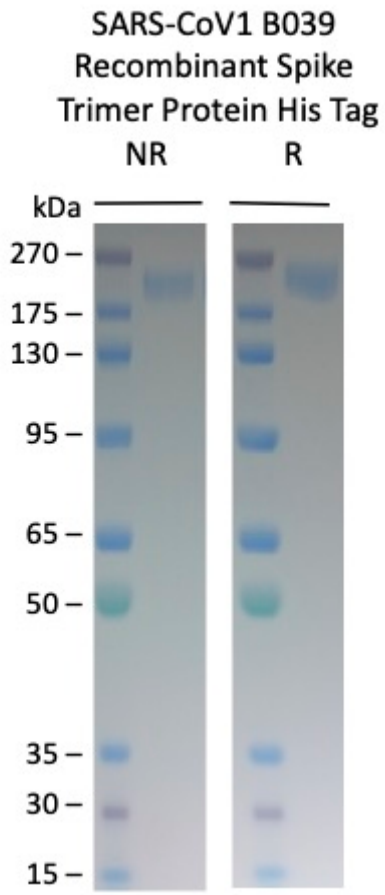
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2. Gallagher T.M. et al., Virology, 2001, 279:371-374.
3. Li W., et al., Nature 2003, 426:450-454.
4. Shang J., et al., Nature, 2020, 581:221-224.

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Concentration–response curves for binding of CoV1 spike protein to human ACE2 in cell-free ELISA-type assays. Microtiter wells were coated with 100 uL of ACE2-Fc at 2 ug/mL in PBS at 4˚C overnight. The wells were washed with PBS and blocked with 200 µL of 1% BSA/PBS at RT for 1 hour. Spike trimer was serially diluted from 10 µg/mL in 1% BSA/PBS. The blocker was discarded, and the wells were incubated with 100 µL 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 µL 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 µL of MB/E Ultra-Sensitive, Blue, Horseradish Peroxidase Substrate (EMD Millipore ES022-500ml) at RT for 5 min. The reaction was stopped with 100 µL of 0.6N H2SO4 and the signals were read at 450 nm using a plate reader (Biotek).

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SARS-CoV-1 Spike Trimer, His Tag (B039) 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.