SARS-CoV-2 (COVID-19) Spike RBD Protein, Omicron / BF.7 variant, His tag

Cat. No. GTX137878-pro

Applications	Binding Assay, ELISA, Sandwich ELISA
Species	SARS Coronavirus 2

Package
100 µg

Applications

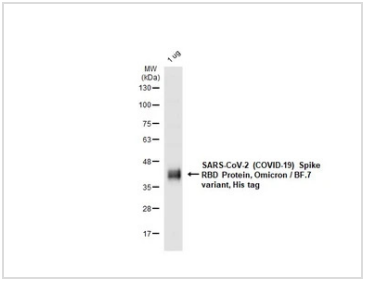
Application Note

Capture : GTX635807, Detection : GTX637591 / GTX637592. Please notice that GTX637591 / GTX637592 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635807. Please contact us for custom HRP-conjugated antibody.

Properties

Form	Lyophilized powder
Buffer	Reconstitute with distilled water to 0.5 mg/ml. Lyophilized from PBS, 2% Trehalose, 5% Mannitol, 0.01% Tween-80.
Preservative	No preservatives
Storage	Store at 4ºC or below. After reconstitution, keep as concentrated solution. Aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles. For long-term storage after reconstitution, aliquot and store at -70ºC or below. Do not vortex.
Region/Sequence	SARS-CoV-2 Spike RBD of QHD43416.1 (319-541 a.a.) with G339D,R346T,S371F,S373P,S375F,T376A,D405N,R408S,K417N,N440K,L452R, S477N,T478K,E484A,F486V,Q498R,N501Y,Y505H and a C-terminal His tag.
Expression System	HEK293 cells
Purity	>95%
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



GTX137878-pro Image

GTX137878-pro SARS-CoV-2 (COVID-19) Spike RBD Protein, Omicron / BF.7 variant, His tag was analyzed using SDS-PAGE and stained with coomassie blue and captured by monochrome camera.

For full product information, images and publications, please visit our website.

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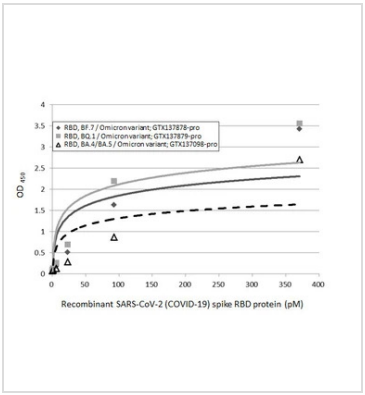
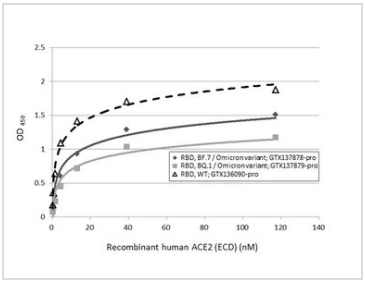


GTX137878-pro ELISA Image

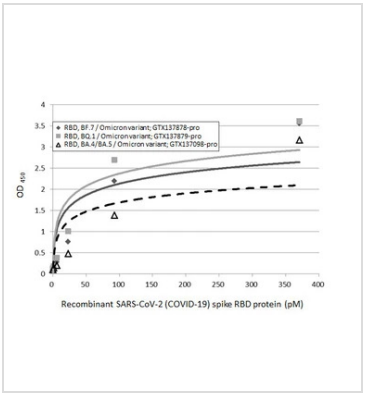
Sandwich ELISA detection of recombinant Spike RBD Protein(s) derived from different strains of SARS-CoV-2 virus (ie., BA.4/BA.5 Omicron variant; BF.7 Omicron variant; BQ.1 Omicron variant) using antibodies as below.

Capture: SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 µg/mL)
Detection: HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD Omicron antibody [HL1866] (GTX637591) (1 µg/mL)
Please notice that GTX637591 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635807. Please contact us for custom HRP-conjugated antibody.



GTX137878-pro Binding Assay Image

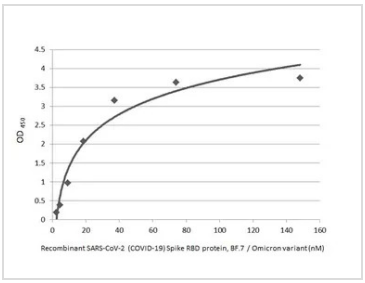
Functional ELISA analysis of immobilized recombinant Spike RBD Protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; BF.7 Omicron variant; BQ.1 Omicron variant) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (-10000, 3333, 1111, 370, 123, 41, 13 ng/ml). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX137878-pro ELISA Image

Sandwich ELISA detection of recombinant Spike RBD Protein(s) derived from different strains of SARS-CoV-2 virus (ie., BA.4/BA.5 Omicron variant; BF.7 Omicron variant; BQ.1 Omicron variant) using antibodies as below.

Capture: SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 µg/mL)
Detection: HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD Omicron antibody [HL1867] (GTX637592) (1 µg/mL)
Please notice that GTX637592 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635807. Please contact us for custom HRP-conjugated antibody.



GTX137878-pro ELISA Image

Indirect ELISA analysis was performed by coating the plate with recombinant SARS-CoV-2 (COVID-19) Spike RBD Protein, Omicron / BF.7 variant, His tag (GTX137878-pro) (148.15-2.31 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect the bound primary antibody.

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