

SARS-CoV-2 (COVID-19) Spike S1 Protein, B.1.1.7 / Alpha variant, His tag (active)

Cat No. GTX136085-pro

Application	Functional Assay
Species	SARS Coronavirus 2

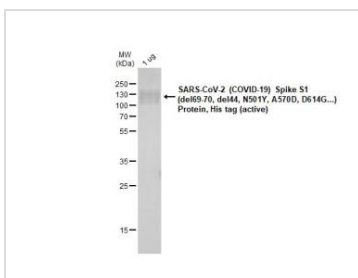
Package

100 µg

PROPERTIES

Form	Lyophilized powder
Buffer	Reconstitute with distilled water. Lyophilized from PBS buffer.
Preservative	No Preservative
Storage	Store at 4°C or below. After reconstitution, keep as concentrated solution and aliquot and store at -20°C or below. Avoid freeze-thaw cycles.
Region/Sequence	SARS-CoV-2 Spike of QHD43416.1 (1-685 a.a) with mutations (deletion 69-70, deletion 144, N501Y, A570D, D614G, P681H) and His tag at the C-terminus
Expression System	HEK293 cells
Purity	>95%
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DATA IMAGES

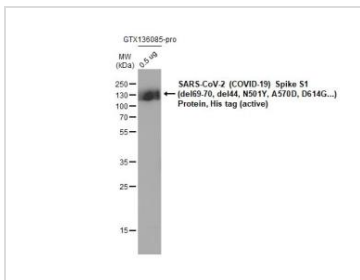


GTX136085-pro Image

1 µg of GTX136085-pro SARS-CoV-2 (COVID-19) Spike S1 (del69-70, del44, N501Y, A570D, D614G...) Protein, His tag (active) protein was analyzed using SDS-PAGE and stained with coomassie blue and captured by monochrome camera.

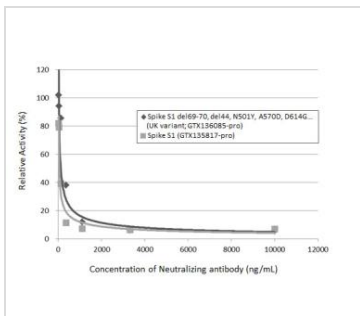


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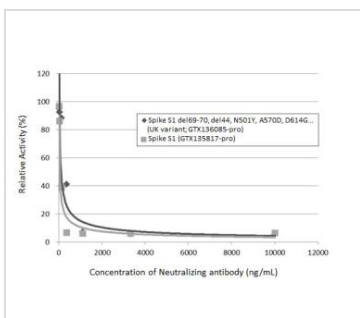
GTX136085-pro Image

SARS-CoV-2 (COVID-19) Spike S1 (del69-70, del44, N501Y, A570D, D614G...) Protein, His tag (active) protein (GTX136085-pro, 0.5 µg) was separated by 12% SDS-PAGE, and the membrane was blotted with the SARS-CoV-2 (COVID-19) Spike RBD antibody [HL257] (GTX635692) diluted at 1:5000.



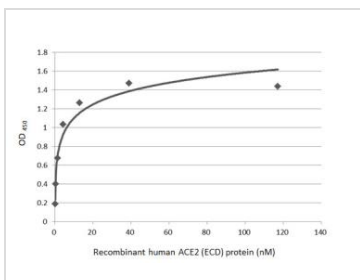
GTX136085-pro Functional Assay Image

Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 (del69-70, del44, N501Y, A570D, D614G...) Protein, His tag (active) (UK variant) (GTX136085-pro) and SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX135817-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (1000 ng/mL). ACE2 binding was inhibited by increasing concentrations of SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1004] (GTX635793) (13.72-10000 ng/mL). Bound ACE2 was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



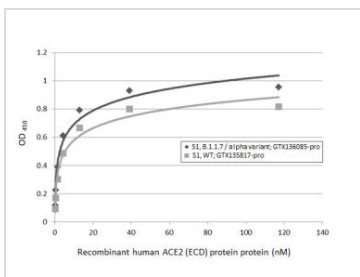
GTX136085-pro Functional Assay Image

Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 (del69-70, del44, N501Y, A570D, D614G...) Protein, His tag (active) (UK variant) (GTX136085-pro) and SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX135817-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (1000 ng/mL). ACE2 binding was inhibited by increasing concentrations of SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (GTX635792) (13.72-10000 ng/mL). Bound ACE2 was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX136085-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 Protein, B.1.1.7 / Alpha variant, His tag (active) (GTX136085-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (0.16-117.19 nM). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX136085-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant Spike S1 protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.1.7 alpha variant) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (0.16-117.19 nM). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



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