

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

## Cat No. GTX136059-pro

**Application** ELISA, Functional Assay

**Species** SARS Coronavirus 2

**Package**

100 µg

### PROPERTIES

**Form** Liquid

**Buffer** PBS

**Preservative** No Preservative

**Storage** Store as concentrated solution. Centrifuge briefly prior to opening vial. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

**Concentration** Batch dependent (Please refer to the vial label for the specific concentration.)

**Region/Sequence** SARS-CoV-2 Spike of QHD43416.1 (1-1213 a.a, extracellular domain) with UK variant (501Y.V1 / B.1.1.7) mutations (deletion 69-70, deletion 144, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H), S1-S2 cleavage site mutations (682-685GSAS), 6 stabilizing (HexaPro) mutations (F817P, A892P, A899P, A942P, K986P, V987P), and His tag at the C-terminus.

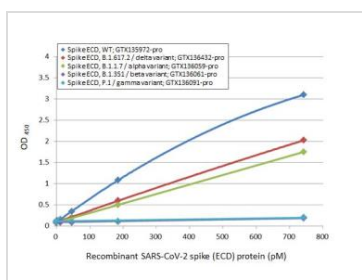
**Expression System** HEK293 cells

**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



#### GTX136059-pro ELISA Image

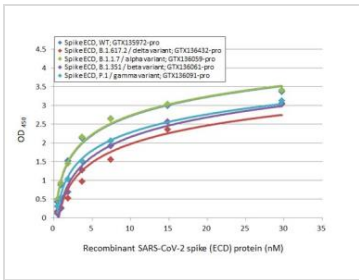
Sandwich ELISA detection of recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant; B.1.617.2 delta variant) using antibodies as below.

**Capture:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 µg/mL)

**Detection:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (HRP) (GTX635792-01) (1 µg/mL)

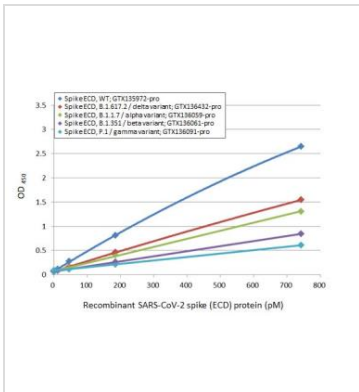


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**GTx136059-pro ELISA Image**

Indirect ELISA analysis performed by coating plate with recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant; B.1.617.2 delta variant) (29.71-0.46 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTx635791) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) was used to detect bound primary antibody.



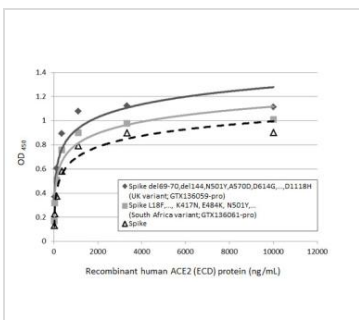
**GTx136059-pro ELISA Image**

Sandwich ELISA detection of recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.617.2 delta variant; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant) using antibodies as below.

**Capture:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTx635807) (5 µg/mL)

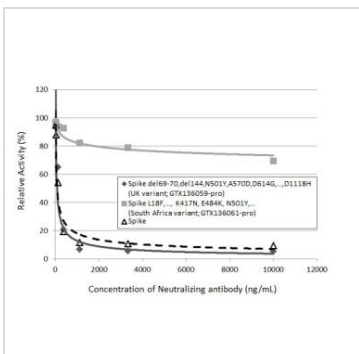
**Detection:** HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTx635791) (1 µg/mL)

Please notice that GTx635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTx635807. Please contact us for custom HRP-conjugated antibody.



**GTx136059-pro Functional Assay Image**

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike (del69-70,del144,N501Y,A570D,D614G,...,D1118H) (ECD) Protein, His tag (active) (UK variant) (GTx136059-pro), SARS-CoV-2 (COVID-19) Spike (L18F,..., K417N, E484K, N501Y,...)(ECD) Protein, His tag (active) (South Africa variant) (GTx136061-pro) and SARS-CoV-2 (COVID-19) Spike Protein (Wild type) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTx135683-pro) (14-10000 ng/mL). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTx213111-01) (1:10000).



**GTx136059-pro Functional Assay Image**

Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike (del69-70,del144,N501Y,A570D,D614G,...,D1118H) (ECD) Protein, His tag (active) (UK variant) (GTx136059-pro), SARS-CoV-2 (COVID-19) Spike (L18F,..., K417N, E484K, N501Y,...)(ECD) Protein, His tag (active) (South Africa variant) (GTx136061-pro) and SARS-CoV-2 (COVID-19) Spike Protein (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) (14-10000 ng/mL). Bound ACE2 was detected by Goat Anti-Mouse IgG antibody (HRP) (GTx213111-01) (1:10000).



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