

# SARS-CoV-2 (COVID-19) Spike (ECD) Protein, P.1 / Gamma variant, His tag (active)

## Cat. No. GTX136091-pro

**Applications** Binding Assay, WB, ELISA, Sandwich ELISA

**Species** SARS Coronavirus 2

### Package

100 µg

## Applications

### Application Note

Recommended antibody pairs for sandwich ELISA:

Capture : GTX635807, Detection : GTX635791 / GTX635793-01 / GTX635792-01 or Capture : GTX632604, Detection : GTX635792 / GTX635672 / GTX635713.

Please notice that the detected antibody needs to be conjugated to HRP to function when paired with capture antibodies. Please contact us for custom HRP-conjugated antibody.

## 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. For long-term storage after reconstitution, aliquot and store at -70°C or below. Do not vortex.

**Concentration** 0.2 mg/ml (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 Brazil variant (P.1 / 501Y.V3 / B.1.1.28) mutations (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y, T1027I, V1176F), S1-S2 cleavage site mutations (682-685GSAS), 6 stabilizing (HexaPro) mutations (F817P, A892P, A899P, A942P, K986P, V987P), and T4 trimerization domain as well as a C-terminal His tag.

**Expression System** HEK293 cells

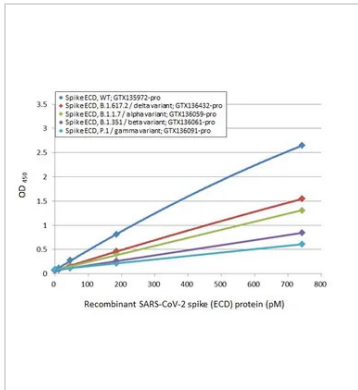
**Purity** >95%

**Conjugation** Unconjugated

**Note** For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



For full product information, images and publications, please visit our [website](#).

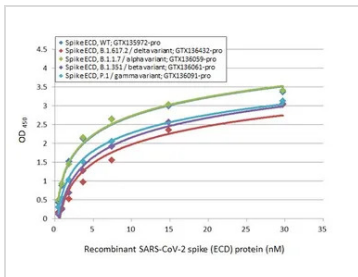
**DATA IMAGES**

**GTX136091-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.

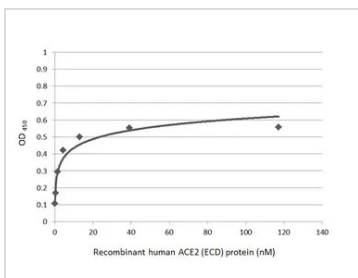
**Capture:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 µg/mL)

**Detection:** HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (1 µg/mL)

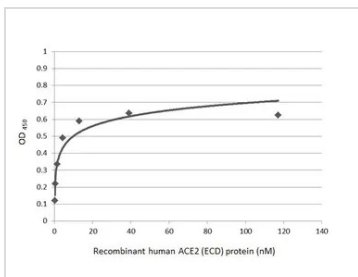
Please notice that GTX635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635807. Please contact us for custom HRP-conjugated antibody.


**GTX136091-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.


**GTX136091-pro Binding Assay Image**

Functional ELISA analysis of immobilized recombinant (GTX136091-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (0.15-117.19 nM). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).


**GTX136091-pro Binding Assay Image**

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike (ECD) Protein, P.1 / Gamma variant, His tag (active) (GTX136091-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).



For full product information, images and publications, please visit our [website](https://www.genetex.com).