

# SARS-CoV-2 (COVID-19) Spike (ECD) Protein, B.1.351 / Beta variant, His tag (active)

## Cat. No. GTX136061-pro

| Applications | Binding Assay, WB, ELISA, Sandwich ELISA | Package<br>100 μg |
|--------------|--|-------------------|
| Species      | SARS Coronavirus 2                       | 13                |

## **Applications**

## **Application Note**

Recommended antibody pairs for sandwich ELISA:

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

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.

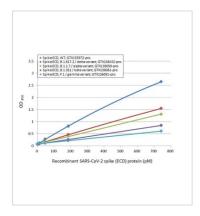
| Properties        |   |  |
|-------------------|---|--|
| Form              | Liquid  |  |
| Buffer            | PBS   |  |
| Preservative      | No preservatives  |  |
| Storage           | Store as concentrated solution. Centrifuge briefly prior to opening vial. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. For long-term storage after reconstitution, aliquot and store at -70°C or below. Do not vortex.   |  |
| Concentration     | 0.7 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 South Africa variant (501Y.V2 / B.1.351) mutations (L18F, D80A, D215G, R246I, K417N, E484K, N501Y, D614G, A701V), 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 <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.  |  |



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## DATA IMAGES

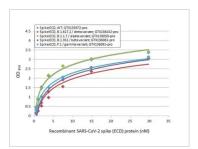


### GTX136061-pro ELISA Image

Sandwich ELISA detection of recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B1.617.2 delta variant; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant) using antibodies as below.

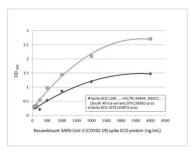
**Capture:** SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 μg/mL) **Detection:** HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (1 μg/mL)

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.



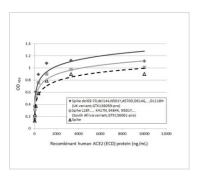
#### GTX136061-pro ELISA Image

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; B1.617.2 delta variant) (29.71-0.46 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (1  $\mu$ g/mL). Goat anti-rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.



### GTX136061-pro ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant 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 (ECD) protein, His tag (active) (GTX135972-pro) (4000-62.5 ng/mL). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike S1 antibody [HL13402] (GTX635713) (1  $\mu$ g/mL). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.



#### GTX136061-pro Binding 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  $\mu$ g/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).



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