

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

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 : 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 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 0.7 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

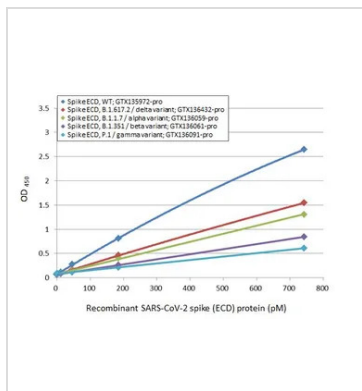
Purity >95%

Conjugation Unconjugated

Note For *In vitro* 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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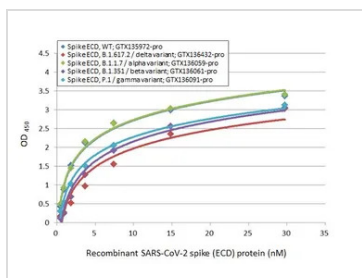
DATA IMAGES

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; 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.

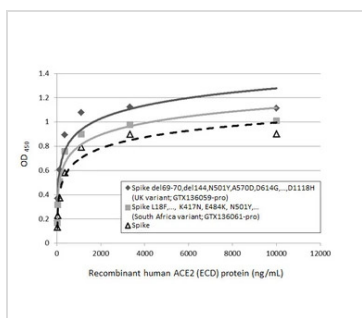
Capture: SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTx635807) (5 µg/mL)

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

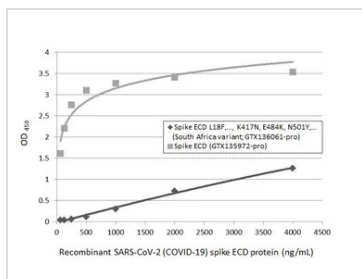
Please notice that GTx635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTx635807. Please contact us for custom HRP-conjugated antibody.


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; 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.


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 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).


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 RBD antibody [HL1003] (GTx635792) (1 µg/mL). Rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) was used to detect bound primary antibody.



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