

SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active)

Cat. No. GTX01554-pro
Applications ELISA, Functional Assay

Species SARS Coronavirus 2

Package

100 µg

Applications

Application Note

Activity was measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 at 2 µg/ml (100 µl/well) can bind Recombinant nCoV-S1. The EC₅₀ of SARS-CoV-2 (COVID-19) Spike S1 protein is 0.25-0.45 µg/ml.

Properties

Form Lyophilized powder

Buffer Reconstitute with distilled water to 0.1-0.5mg/ml. Lyophilized from 0.22µm-filtered PBS (pH7.4).

Preservative No preservative

Storage Store at -20°C or below. After reconstitution, the protein solution is stable at -20 °C for 1 month, at 4°C for up to 1 week. Avoid freeze-thaw cycles.

Region/Sequence Val16-Arg685 of SARS-CoV-2 (COVID-19) Spike S1 protein (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus.

Expression System HEK293 cells

Purity > 90% by SDS-PAGE

Endotoxin < 1.0 EU/µg (determined by the LAL method)

Conjugation Unconjugated

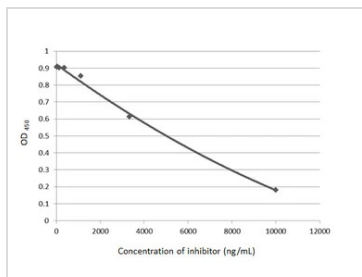
Note

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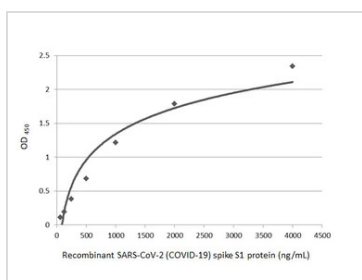
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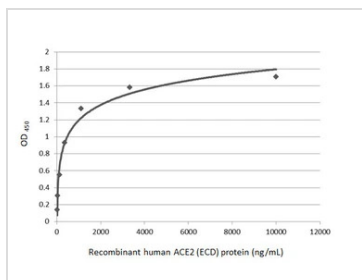
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DATA IMAGES

GTX01554-pro ELISA Image

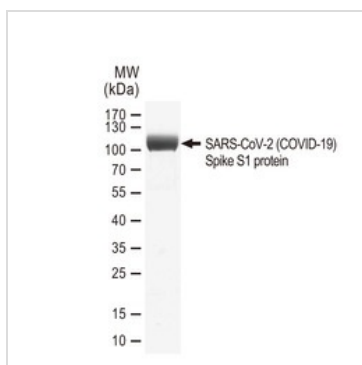
Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX01554-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (GTX135683-pro) (1000 ng/mL). ACE2 binding was inhibited by increasing concentrations of SARS-CoV-2 (COVID-19) Spike RBD antibody (GTX135709) (14-10000 ng/mL). Bound ACE2 protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).


GTX01554-pro ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) protein (GTX01554-pro) (4000-62.5 ng/mL). Coated protein probed with SARS-CoV-2 (COVID-19) Spike S1 antibody (GTX135384) (1 µg/mL). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) detected bound primary antibody.


GTX01554-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX01554-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (GTX135683-pro) (14-10000 ng/mL). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).


GTX01554-pro Image

SDS-PAGE of GTX01554-pro SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active).



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