

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

## Cat No. GTX01548-pro

<b>Application</b>	ELISA, Functional Assay
<b>Species</b>	SARS Coronavirus 2

Reference ( 1 )  
 Package  
 100 µg

## APPLICATION

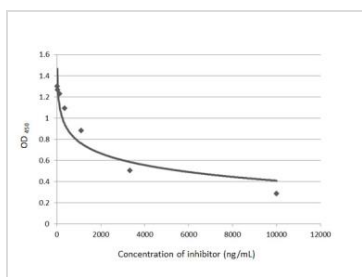
## Application Note

Activity was measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2 (COVID-19) Spike S1 protein at 0.5 µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 0.06-0.25 µg/mL.

## PROPERTIES

<b>Form</b>	Lyophilized powder
<b>Buffer</b>	Reconstitute with distilled water to a concentration of 0.1-0.5mg/ml. Lyophilized from 0.22µm-filtered PBS (pH7.4).
<b>Preservative</b>	No preservative
<b>Storage</b>	Store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
<b>Region/Sequence</b>	Gln14-Arg683 of SARS-CoV-2 (COVID-19) Spike S1 protein (Accession #YP_009724390.1) fused with a 6×His tag and Avi at the C-terminus.
<b>Expression System</b>	HEK293 cells
<b>Purity</b>	> 95% by SDS-PAGE
<b>Endotoxin</b>	< 0.1 EU/µg (determined by LAL method)
<b>Conjugation</b>	Unconjugated
<b>Note</b>	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

## DATA IMAGES

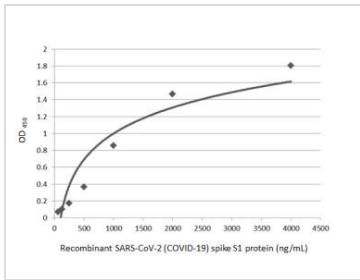


## GTX01548-pro Functional Assay Image

Inhibition ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His and Avi tag (active) (GTX01548-pro) (coated at 2 µg/mL) inhibiting by SARS-CoV-2 (COVID-19) Spike RBD antibody (GTX135709) (14-10000 ng/mL), and binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (GTX135683-pro) (3000 ng/mL). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).

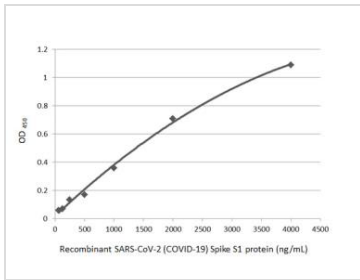


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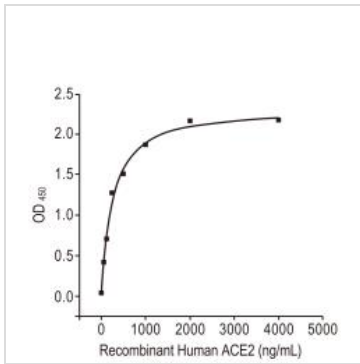
**GTX01548-pro ELISA Image**

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) spike S1 protein (GTX01548-pro) (62.5-4000 ng/mL). Coated protein probed with SARS-CoV-2 (COVID-19) Spike antibody (GTX135356) (1 µg/mL). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) detected bound primary antibody.



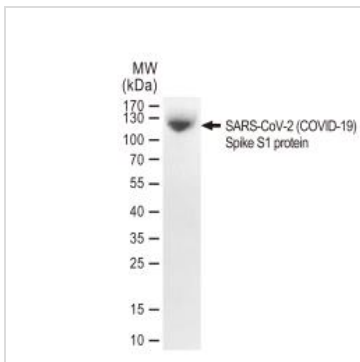
**GTX01548-pro ELISA Image**

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His and Avi tag (active) protein (GTX01548-pro) (4000-62.5 ng/mL). Coated protein probed with SARS-CoV-2 (COVID-19) Spike antibody (GTX135360) (1 µg/mL). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) detected bound primary antibody.



**GTX01548-pro Functional Assay Image**

Functional ELISA analysis of immobilized GTX01548-pro SARS-CoV-2 (COVID-19) Spike S1 protein (active) at 0.5µg/mL (100 µL/well) can bind recombinant human ACE2 with a linear range of 0.06-0.25µg/mL.



**GTX01548-pro Image**

SDS-PAGE of GTX01548-pro SARS-CoV-2 (COVID-19) Spike S1 protein (active).



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