

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

## Cat. No. GTx01546-pro

Applications	ELISA, Functional Assay	References ( 2 )
Species	SARS Coronavirus 2	Package 100 µg

## Applications

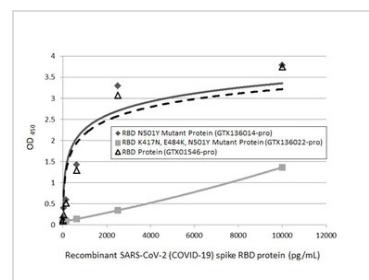
## Application Note

Activity was measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-CoV-2 (COVID-19) Spike RBD protein at 2 µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 8-80 ng/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 preservatives
Storage	Store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	Arg319-Phe541 of SARS-CoV-2 (COVID-19) Spike RBD protein (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus.
Expression System	HEK293 cells
Purity	> 95% by SDS-PAGE
Endotoxin	< 0.1 EU/µg (determined by LAL method)
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

## DATA IMAGES



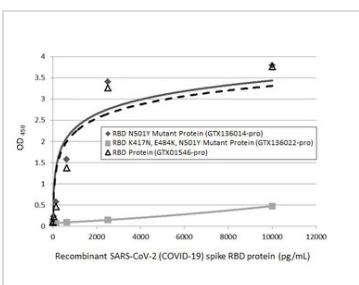
## GTx01546-pro ELISA Image

Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike RBD (N501Y Mutant) protein, His tag (active) (GTx136014-pro), SARS-CoV-2 (COVID-19) Spike RBD (K417N, E484K, N501Y Mutant) protein, His tag (active) (GTx136022-pro), and SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) using SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTx635807) as capture antibody at concentration of 5 µg/mL and SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1004] (HRP) (GTx635793-01) as detection antibody at concentration of 1 µg/mL.



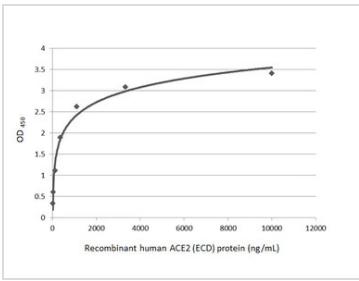
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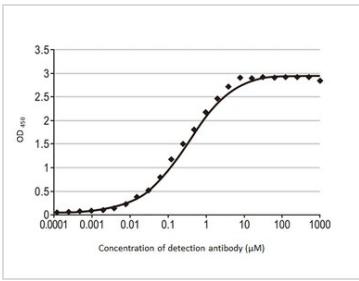
### GTx01546-pro ELISA Image

Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike RBD (N501Y Mutant) protein, His tag (active) (GTx136014-pro), SARS-CoV-2 (COVID-19) Spike RBD (K417N, E484K, N501Y Mutant) protein, His tag (active) (GTx136022-pro), and SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) using SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTx635807) as capture antibody at concentration of 5  $\mu$ g/mL and SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (HRP) (GTx635792-01) as detection antibody at concentration of 1  $\mu$ g/mL.



### GTx01546-pro Functional Assay Image

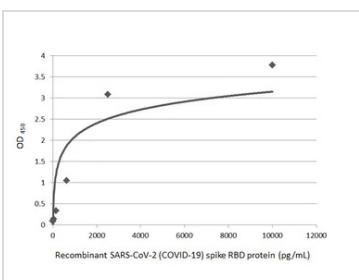
Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) (coated at 2  $\mu$ g/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (GTx135683-pro) (4.5-10000 ng/mL). Bound protein was detected by ACE2 antibody [N1N2], N-term (GTx101395) (0.5  $\mu$ g/mL) and Rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) detected bound primary antibody.



### GTx01546-pro ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) (50 ng). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTx635807) (1000-1.19\*10<sup>-4</sup>  $\mu$ M). Rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) was used to detect bound primary antibody.

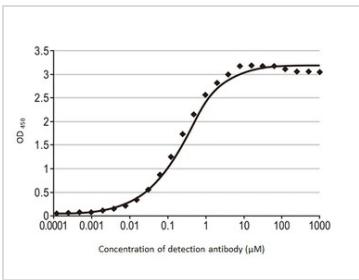
EC50 : 0.24  $\mu$ M



### GTx01546-pro ELISA Image

Sandwich ELISA detection of recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) using SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (GTx635792) as capture antibody at concentration of 5  $\mu$ g/mL and HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTx635791) as detection antibody at concentration of 1  $\mu$ g/mL.

Please notice that GTx635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTx635792. Please contact us for custom HRP-conjugated antibody.



### GTx01546-pro ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTx01546-pro) (50 ng). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1004] (GTx635793) (1000-1.19\*10<sup>-4</sup>  $\mu$ M). Rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) was used to detect bound primary antibody.

EC50 : 0.2  $\mu$ M



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