

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

Cat. No. GTX01546-pro

Applications	ELISA, Functional Assay
Species	SARS Coronavirus 2

References (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

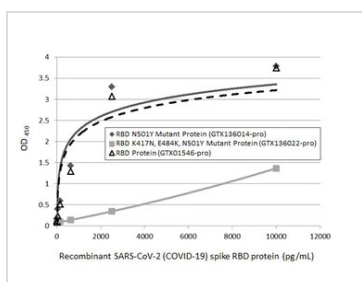
Form	Lyophilized powder
Buffer	Reconstitute with distilled water to 0.1-0.5mg/ml. Lyophilized from 0.22µm-filtered PBS (pH7.4).
Preservative	No preservative
Storage	Store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	Arg319-Phe541 of 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.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

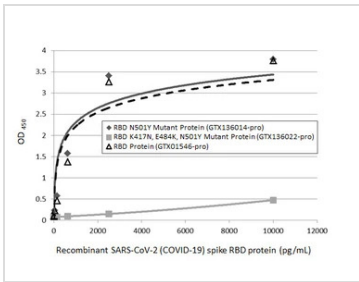


GTX01546-pro ELISA Image

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.

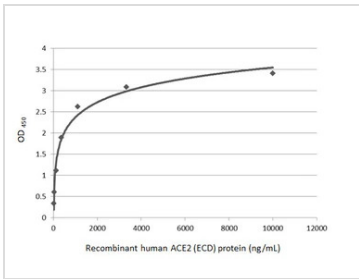


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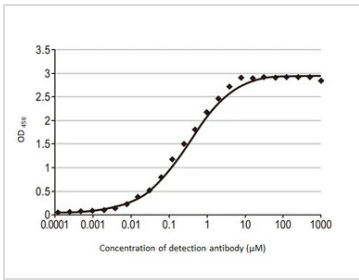
GTX01546-pro ELISA Image

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 µg/mL and SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003] (HRP) (GTX635792-01) as detection antibody at concentration of 1 µg/mL.



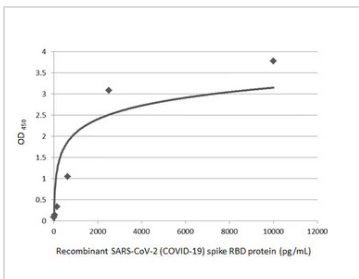
GTX01546-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTX01546-pro) (coated at 2 µg/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 µg/mL) and Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) detected bound primary antibody.



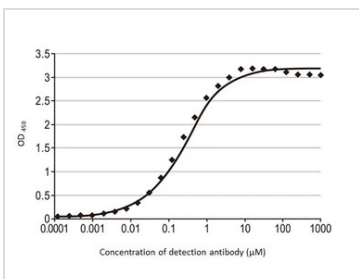
GTX01546-pro ELISA Image

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*10⁻⁴ µM). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.
EC50 : 0.24 µM



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 µg/mL and HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) as detection antibody at concentration of 1 µg/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*10⁻⁴ µM). Rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.
EC50 : 0.2 µM



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