

Human ACE2 (ECD) protein, mouse IgG Fc tag (active)

Cat No. GTX135683-pro

Application	ELISA, Functional Assay, Lateral Flow
Species	Human

★★★★★ Review (1)

Package
100 µg

APPLICATION

Calculated MW 92 kDa. ([Note](#))

PROPERTIES

Form Lyophilized powder**Buffer** Reconstitute with distilled water. Lyophilized from PBS buffer.**Preservative** No Preservative**Storage** Store at 4°C or below. After reconstitution, keep as concentrated solution and aliquot and store at -20°C or below. Avoid freeze-thaw cycles.**Region/Sequence** Human ACE2 of NP_068576.1 (Met1-Ser740) with the Fc region of mouse IgG1 at the C-terminus**Expression System** HEK293 cells**Purity** >90%**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DATA IMAGES

**GTX135683-pro Lateral Flow Image**

SARS-CoV-2 neutralizing antibody interferes with the binding of ACE2 and spike RBD proteins. The signal intensity of the test line (T) decreases due to competition by the neutralizing antibody, while the control line (C) demonstrates a valid test.

Neutralizing Antibody: Spike RBD antibody [HL1002] (GTX635791)

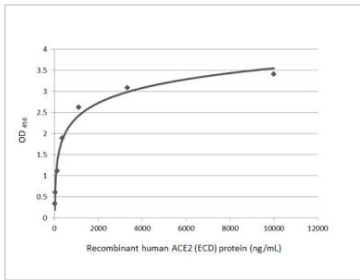
C Line:

Detector: Colloidal gold-conjugated human ACE2 (ECO) protein (GTX135683-pro) / **Capture:** Anti-human ACE2 antibody (GTX635897)

T Line:

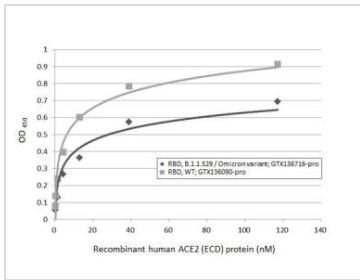
Detector: Colloidal gold-conjugated human ACE2 (ECO) protein (GTX135683-pro) / **Capture:** SARS-CoV-2 Spike RBD protein

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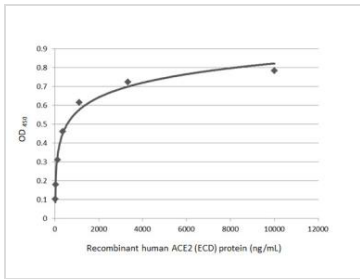
GTX135683-pro ELISA Image

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.



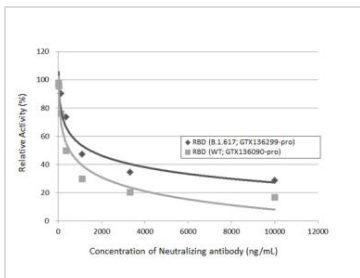
GTX135683-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant Spike RBD Protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.1.529 Omicron variant) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (0.16-117.19 nM). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



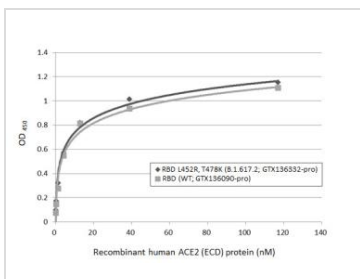
GTX135683-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (GTX136090-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (13-10000 ng/mL). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX135683-pro Functional Assay Image

Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike RBD (L452R, E484Q Mutant) protein, His tag (active) (Indian variant) (GTX136299-pro) and SARS-CoV-2 (COVID-19) Spike RBD protein, His tag (active) (Wild type) (GTX136090-pro) (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (1000 ng/mL). binding was inhibited by increasing concentrations of SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (13.72-10000 ng/mL). Bound was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX135683-pro Functional Assay Image

Functional ELISA analysis of immobilized recombinant Spike RBD proteins of SARS-CoV-2 (COVID-19) derived from different strains (Delta variant B.1.617.2 or Wide type strain) (2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (0.16-117.19 nM). Bound protein was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



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