

SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002]

Cat No. GTX635791

Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Application	ELISA, Lateral Flow, Neutralizing/Inhibition, Sandwich ELISA
Reactivity	SARS Coronavirus 2

★★★★★ Review (1)

Package
100 µl, 25 µl

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Dilution
ELISA	Assay dependent
Lateral Flow	Assay dependent
Neutralizing/Inhibition	Assay dependent
Sandwich ELISA	Assay dependent

Note : Capture : GTX632604 / GTX635792 / GTX635807, Detection: GTX635791. or Capture : GTX635791, Detection: GTX635807 / GTX635792-01. Please notice that GTX635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635792 or GTX635807. GTX635807 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635791. Please contact us for conjugation service.

Not tested in other applications.

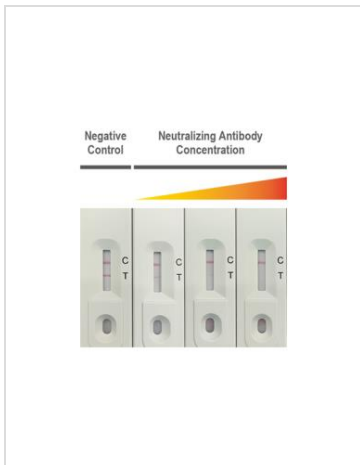
PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	No Preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Full length SARS-coV-2 RBD recombinant protein. (Wuhan-Hu-1)
Purification	Affinity purified by Protein A.
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.



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DATA IMAGES



GTX635791 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.

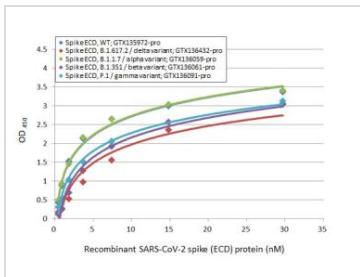
Neutralizing Antibody: Spike RBD antibody [HL1002] (GTX635791)

C Line:

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

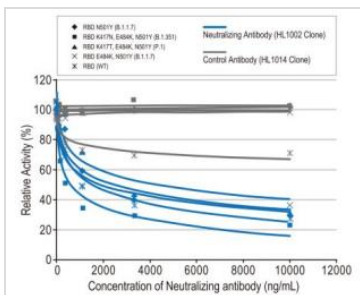
T Line:

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



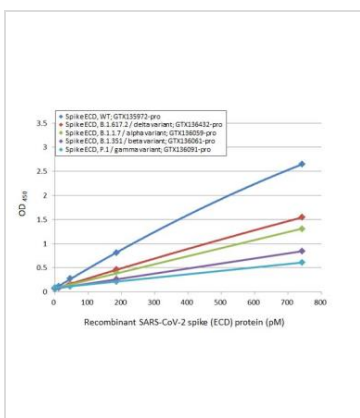
GTX635791 ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant; B.1.617.2 delta variant) (29.71-0.46 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.



GTX635791 Neutralizing/Inhibition Image

Inhibition analysis of immobilized recombinant SARS-CoV-2 (COVID-19) Spike RBD proteins of WT and viral variants (coated at 2 µg/mL) binding to soluble recombinant Human ACE2 (ECD) protein, mouse IgG Fc tag (active) (GTX135683-pro) (1000 ng/mL). ACE2 binding was inhibited by increasing concentrations of SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) and SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (13.72-10000 ng/mL). Bound ACE2 was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



GTX635791 ELISA Image

Sandwich ELISA detection of recombinant Spike ECD protein(s) derived from different strains of SARS-CoV-2 virus (ie., Wild type; B.1.617.2 delta variant; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant) using antibodies as below.

Capture: SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807) (5 µg/mL)

Detection: HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1002] (GTX635791) (1 µg/mL)

Please notice that GTX635791 needs to be conjugated to HRP to function as the detection antibody when paired with GTX635807. Please contact us for custom HRP-conjugated antibody.



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