

SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit

Cat No. GTX536267

Application ELISA, Sandwich ELISA

Reactivity SARS Coronavirus 2

Package

96 test

PRODUCT

Summary

The GeneTex SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA kit is an in vitro tool that quantitatively detects the SARS-CoV-2 Spike receptor-binding domains (RBDs) of the "wildtype" SARS-CoV-2 strain as well as those of the Alpha, Beta, Gamma, Delta, Alpha (E484K), and Kappa variants. This assay employs a pair of monoclonal antibodies specific for the SARS-CoV-2 RBD, with the lowest detectable dose concentration of standard RBD protein being 1.8 pg/ml (Alpha variant).

APPLICATION

Application Note

The suitable sample types include cell culture supernatant, plasma and serum. The suggested sample loading amount is 50µl per well. Please see the protocol for detailed procedure. Assay range : Please refer to the protocol.

Product Note

This ELISA kit specifically detects virus SARS-CoV-2 Spike RBD protein, with sensitivity being 1.8 pg/ml for RBD (B.1.1.7 , N501Y mutant).

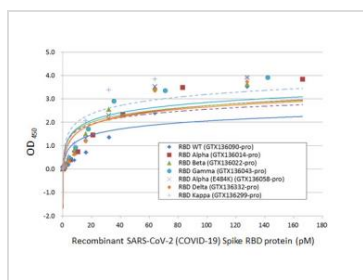
PROPERTIES

Storage The entire kit can be stored at 2-8°C for up to 6 months.

Conjugation Horseradish peroxidase(HRP)

Note For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DATA IMAGES

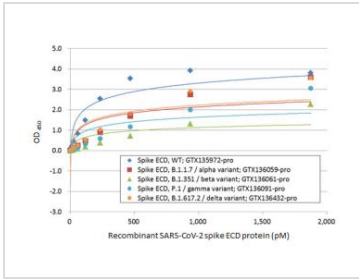


GTX536267 ELISA Image

Sandwich ELISA detection of recombinant Spike RBD proteins derived from different strains of SARS-CoV-2 (i.e., wild type, Alpha variant, Beta variant, Gamma variant, Alpha (E484K) variant, Delta variant, Kappa variant) using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).

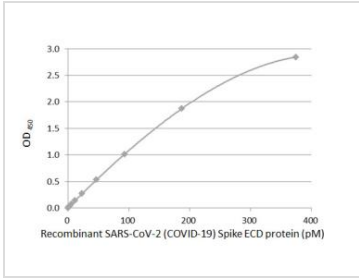


For full product information, images and publications, please visit our [website](https://www.genetex.com).



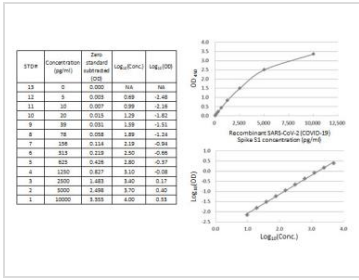
GTX536267 ELISA Image

Sandwich ELISA detection of recombinant Spike ECD proteins 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; B1.617.2 delta variant) using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



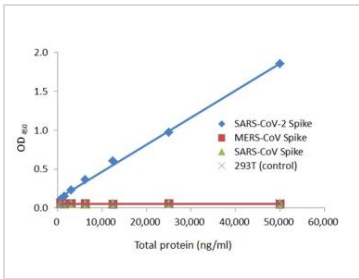
GTX536267 ELISA Image

Sandwich ELISA detection of recombinant Spike ECD protein (GTX135972-pro) derived from wild-type strain of SARS-CoV-2 using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



GTX536267 ELISA Image

ELISA analysis of SARS-CoV-2 (COVID-19) Spike protein S1 subunit using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



GTX536267 ELISA Image

ELISA assay using lysates of 293T cells overexpressing the spike proteins from SARS-CoV-2, SARS-CoV, or MERS-CoV. The SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267) specifically detects only SARS-CoV-2 spike protein.

| A. Recovery Assay | | | | | B. Linearity Assay | | | | |
|---------------------------------|--------------|-------|--------|-------------|---------------------------------|--------------|-------|--------|-------------|
| Spike S1 protein (GTX53627-pro) | | | | | Spike S1 protein (GTX53627-pro) | | | | |
| Sample | Cell Culture | Serum | Plasma | Average (%) | Sample Type | Cell Culture | Serum | Plasma | Average (%) |
| 1 | 100 | 100 | 100 | 100.0 | 1:2 | 100 | 100 | 100 | 100.0 |
| 2 | 100 | 100 | 100 | 100.0 | 1:4 | 100 | 100 | 100 | 100.0 |
| 3 | 100 | 100 | 100 | 100.0 | 1:2 | 100 | 100 | 100 | 100.0 |
| 4 | 100 | 100 | 100 | 100.0 | 1:4 | 100 | 100 | 100 | 100.0 |
| 5 | 100 | 100 | 100 | 100.0 | 1:2 | 100 | 100 | 100 | 100.0 |
| 6 | 100 | 100 | 100 | 100.0 | 1:4 | 100 | 100 | 100 | 100.0 |
| 7 | 100 | 100 | 100 | 100.0 | 1:2 | 100 | 100 | 100 | 100.0 |
| 8 | 100 | 100 | 100 | 100.0 | 1:4 | 100 | 100 | 100 | 100.0 |
| 9 | 100 | 100 | 100 | 100.0 | 1:2 | 100 | 100 | 100 | 100.0 |
| 10 | 100 | 100 | 100 | 100.0 | 1:4 | 100 | 100 | 100 | 100.0 |

GTX536267 ELISA Image

A. Recovery assay was determined by spiking SARS-CoV-2 spike and RBD proteins at various levels throughout the assay range in the listed samples. B. To determine linearity, the listed samples were spiked with SARS-CoV-2 spike and RBD proteins and diluted with Assay Diluent in 1:2 and 1:4. The value was assessed by comparing it to undiluted samples.



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