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

Cat. No. GTX536267

Applications	ELISA, Sandwich ELISA
Reactivity	SARS Coronavirus 2

References (5)
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).

Applications

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.

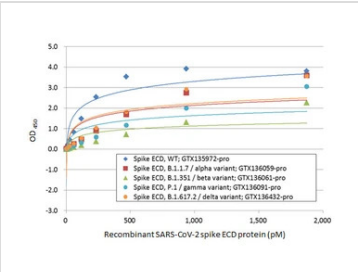
Product Note

This ELISA kit detects Spike RBD proteins derived from multiple SARS-CoV-2 VOCs, including Omicron variant (BA.1 and BA.2).

Properties

Preservative	0.05% ProClin 300
Storage	The entire kit can be stored at 2-8ºC 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

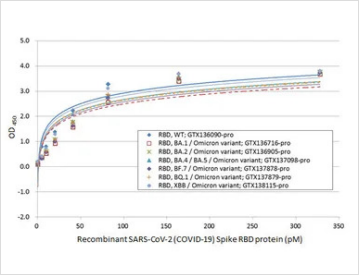
Sandwich ELISA detection of recombinant Spike ECD proteins derived from different strains of SARS-CoV-2 virus (ie., wild type; B.1.1.7 alpha variant; B.1.351 beta variant; P.1 gamma variant; B1.617.2 delta variant) using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).

For full product information, images and publications, please visit our website.

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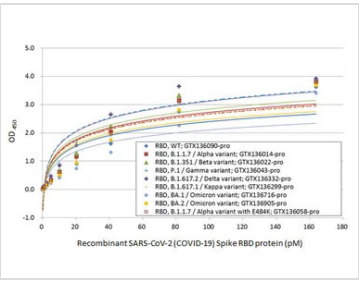
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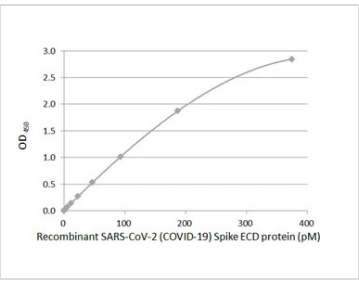
GTX536267 ELISA Image

Sandwich ELISA detection of recombinant Spike RBD proteins derived from different strains of SARS-CoV-2 (ie., wild type; BA.1 Omicron variant; BA.2 Omicron variant; BA.4 / BA.5 Omicron variant; BF.7 Omicron variant; BQ.1 Omicron variant; XBB Omicron variant) using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



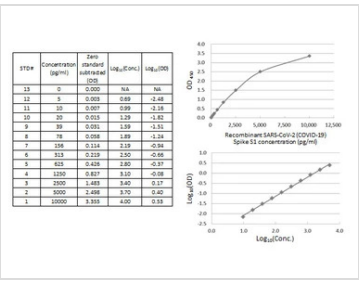
GTX536267 ELISA Image

Sandwich ELISA detection of recombinant Spike RBD proteins derived from different strains of SARS-CoV-2 (ie., wild type; B.1.1.7 Alpha variant; B.1.351 Beta variant; P.1 Gamma variant; B1.617.2 Delta variant, B.1.617.1 Kappa variant; BA.1 Omicron variant; BA.2 Omicron variant; B.1.1.7 Alpha variant with E484K) using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



GTX536267 ELISA Image

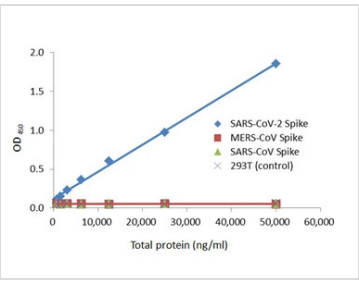
Sandwich ELISA detection of recombinant Spike ECD protein (GTX135972-pro) derived from wild-type strain of SARS-CoV-2 using SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit (GTX536267).



STD#	Concentration (pg/ml)	Zero standard subtracted (OD)	Log_{10}(Conc.)	Log_{10}(OD)
13	0	0.000	NA	NA
12	5	0.003	0.69	-2.48
11	10	0.007	0.99	-2.16
10	20	0.015	1.29	-1.82
9	39	0.031	1.59	-1.51
8	78	0.058	1.89	-1.24
7	156	0.114	2.19	-0.94
6	313	0.219	2.50	-0.66
5	625	0.426	2.80	-0.37
4	1250	0.827	3.10	-0.08
3	2500	1.483	3.40	0.17
2	5000	2.498	3.70	0.40
1	10000	3.355	4.00	0.53

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.

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