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Datasheet for ABIN7013274

SARS-CoV-2 Spike S1 Protein (B.1.351 - beta, RBD) (His tag)

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	B.1.351 - beta, RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Beta
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His tag.

Product Details

Sequence:	AA 319-537
Specificity:	SARS-CoV-2 (COVID-19) S protein RBD (K417N, E484K, N501Y), His Tag (MALS verified)
Characteristics:	SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (K417N, E484K, N501Y). K417N / E484K / N501Y mutations were identified in the SARS-CoV-2 variant (known as 20C/501Y.V2 or B.1.351 lineage) which emerged in South Africa.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV-2 Spike S1
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Target Details

Alternative Name: SARS-CoV-2 S1 protein ([SARS-CoV-2 Spike S1 Products](#))

Target Type: Viral Protein

Background: It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Molecular Weight: 26.6 kDa

Application Details

Application Notes: MALS verified

Restrictions: For Research Use only

Handling

Format: Lyophilized

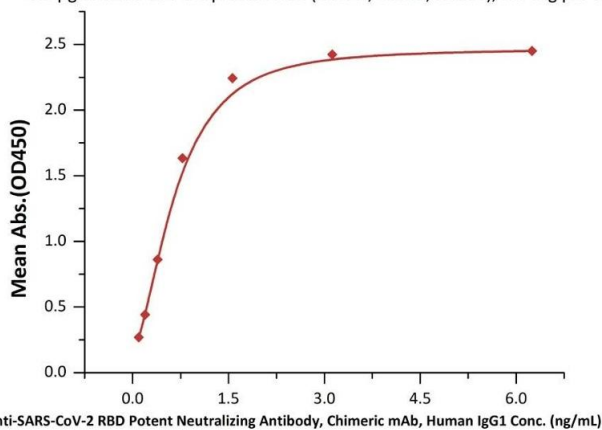
Buffer: PBS, pH 7.4

Storage: -20 °C

Publications

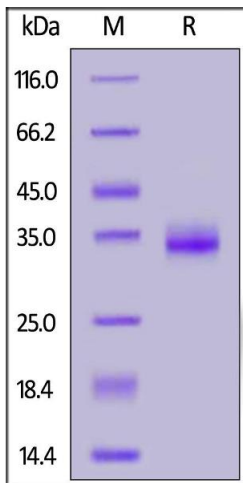
Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)

SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag ELISA
 0.1 µg of SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag per well



ELISA

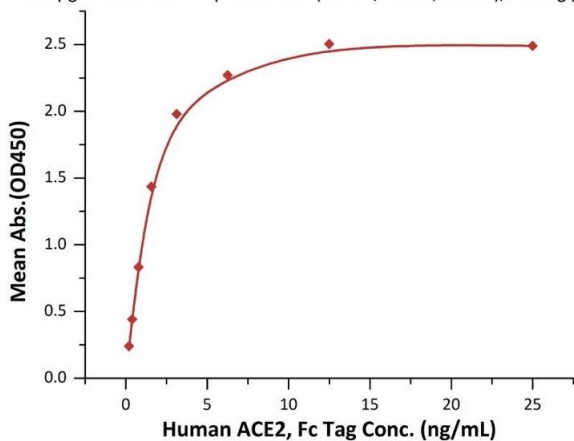
Image 1. Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (ABIN6973240) at 1 µg/mL (100 µ L/well) can bind A-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM128) with a linear range of 0.1-0.8 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag ELISA
 0.1 µg of SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag per well



ELISA

Image 3. Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (ABIN6973240) at 1 µg/mL (100 µ L/well) can bind Human ACE2, Fc Tag (ABIN6952459, ABIN6952465) with a linear range of 0.2-3 ng/mL (QC tested).