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Datasheet for ABIN7013274

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

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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:	Longworth, Dittmar: "An antigen microarray protocol for COVID-19 serological analysis." in: **STAR protocols**, Vol. 2, Issue 3, pp. 100815, (2021) (PubMed).

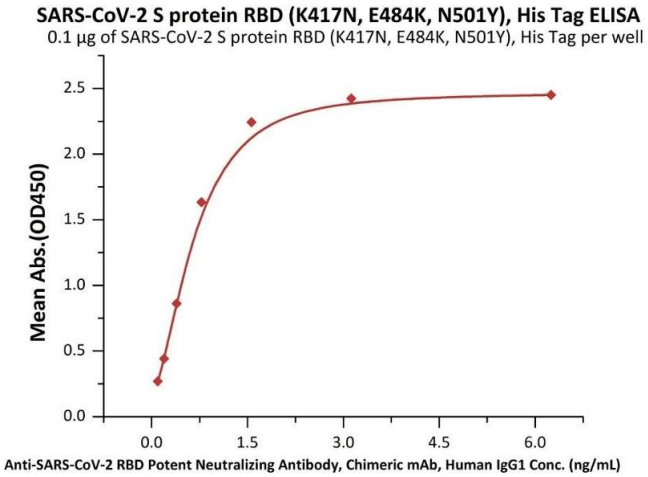

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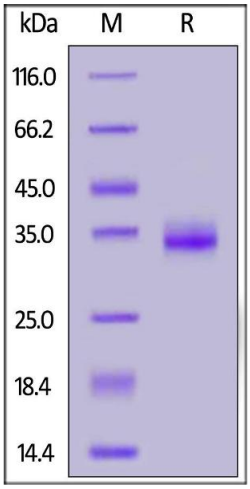
Image 1. Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (ABIN6973240) at 1 µg/mL (100 µ L/well) can bind A-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM128) with a linear range of 0.1-0.8 ng/mL (Routinely tested).



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 % .

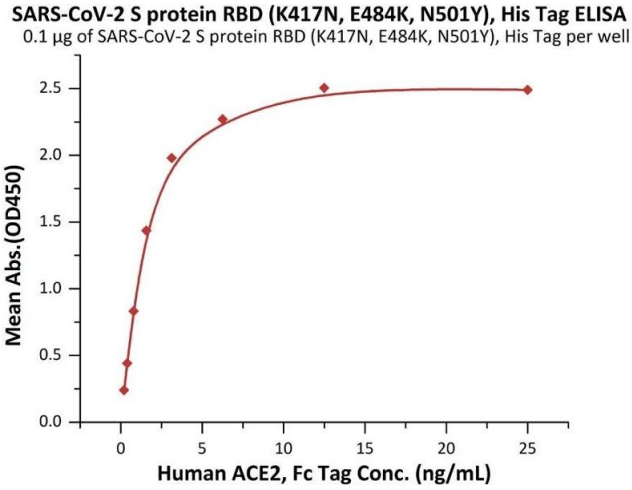


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Image 3. Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (ABIN6973240) at 1 µg/mL (100 µ L/well) can bind Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) with a linear range of 0.2-3 ng/mL (QC tested).

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