Datasheet for ABIN6992401

SARS-CoV-2 Spike Protein (P.1 - gamma, RBD) (Fc Tag)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	P.1 - gamma, RBD
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Gamma
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike protein is labelled with Fc Tag.

Product Details

Purpose:	SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag (MALS verified)
Sequence:	AA 319-537
Characteristics:	SARS-CoV-2 S protein RBD (K417T,E484K,N501Y), Fc Tag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (K417T, E484K, N501Y). The K417T, E484K, N501Y mutations were identified in the SARS-CoV-2 variant (known as P.1) which emerged in Brazil.
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

Target Details

Alternative Name:	SARS-CoV-2 S protein (SARS-CoV-2 Spike Products)
Target Type:	Viral Protein
Background:	It's been reported that Coronavirus 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:	51.1 kDa

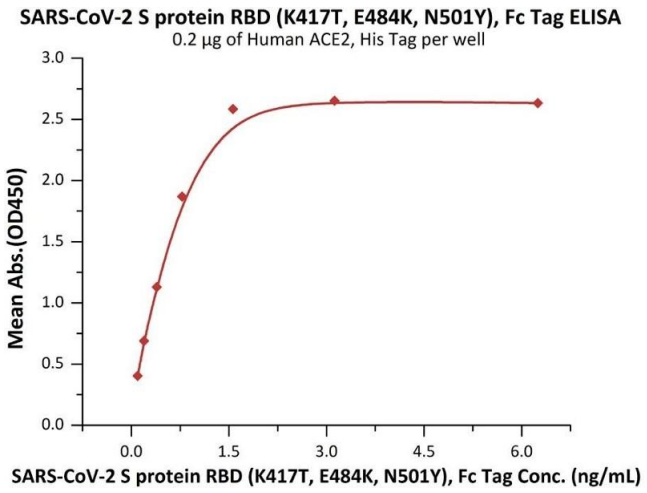
Application Details

Restrictions:	For Research Use only

Handling

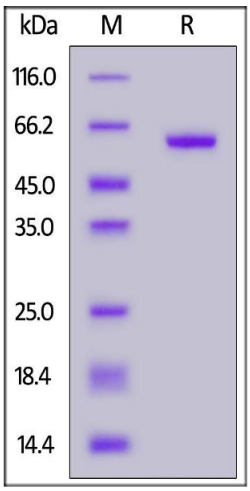
Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5
Storage:	-20 °C

Images



ELISA

Image 1. Immobilized Human ACE2, His Tag (ABIN6952618,ABIN6952641) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag (ABIN6992401) with a linear range of 0.1-0.8 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

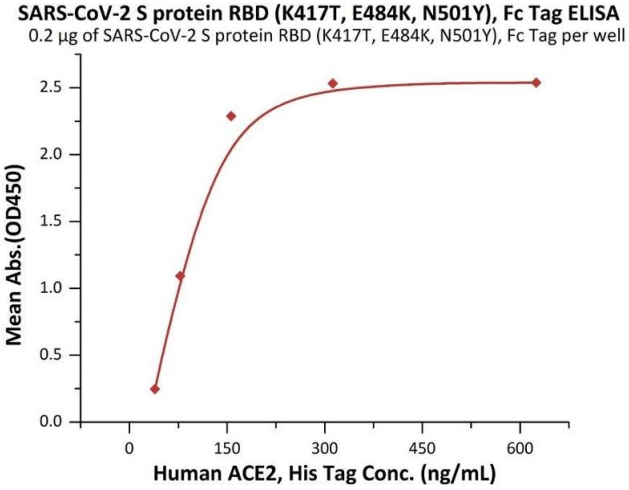


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Image 3. Immobilized SARS-CoV-2 S protein RBD (K417T, E484K, N501Y), Fc Tag (ABIN6992401) at 2 µg/mL (100 µ L/well) can bind Human ACE2, His Tag (ABIN6952618,ABIN6952641) with a linear range of 39-156 ng/mL (QC tested).

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