Datasheet for ABIN6992361

SARS-CoV-2 Spike S1 Protein (P.1 - gamma) (His tag)

3 Images

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	P.1 - gamma
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 S1 protein is labelled with His tag.

Product Details

Purpose:	SARS-CoV-2 S1 protein (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y), His Tag
Sequence:	AA 16-685
Characteristics:	SARS-CoV-2 S1 protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 16 - Arg 685 (Accession # QHD43416.1). L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y mutations were identified in the SARS-CoV-2 variant (known as P.1 lineage) which emerged in Brazil.
Purity:	>90 % 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
Alternative Name:	SARS-CoV-2 S1 protein (SARS-CoV-2 Spike S1 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:	76.9 kDa

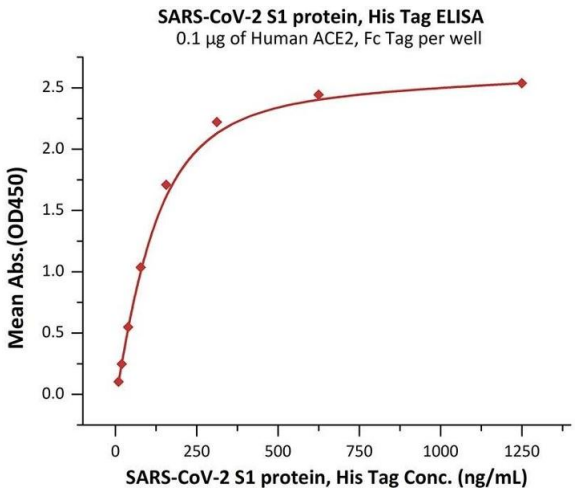
Application Details

Restrictions:	For Research Use only

Handling

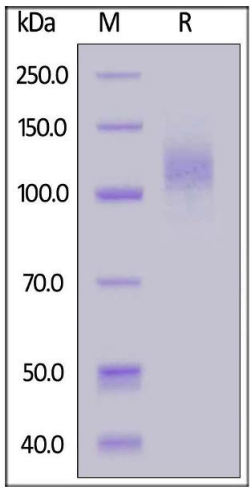
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C

Images



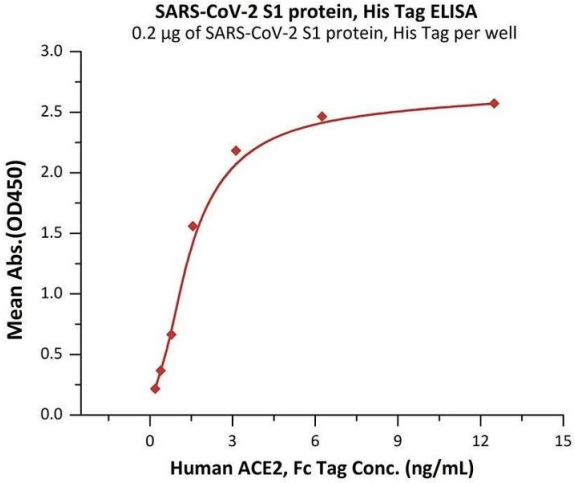
ELISA

Image 1. Immobilized Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) at 1 μg/mL (100 μL/well) can bind SARS-CoV-2 S1 protein, His Tag (ABIN6992361) with a linear range of 9.8-156 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS-CoV-2 S1 protein, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .



ELISA

Image 3. Immobilized SARS-CoV-2 S1 protein, His Tag (ABIN6992361) at 2 μg/mL (100 μL/well) can bind Human ACE2, Fc Tag (ABIN6952459,ABIN6952465) with a linear range of 0.2-2 ng/mL (QC tested).