Datasheet for ABIN6992403

# SARS-CoV-2 Spike S1 Protein (B.1.1.7 - alpha) (Fc Tag)

3 Images

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 100 µg |
| Target: | SARS-CoV-2 Spike S1 |
| Protein Characteristics: | B.1.1.7 - alpha |
| Origin: | SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Alpha |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This SARS-CoV-2 Spike S1 protein is labelled with Fc Tag. |

## Product Details

| | |
|---|---|
| Purpose: | SARS-CoV-2 S1 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H), Fc Tag |
| Sequence: | AA 16-685 |
| Characteristics: | SARS-CoV-2 S1 protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Val 16 - Arg 685 (Accession # QHD43416.1). The mutations (HV69-70del, Y144del, N501Y, A570D, D614G, P681H) were identified in the SARS-CoV-2 variant (known as B.1.1.7, 20B/501Y.V1 or VOC 202012/01) which emerged in the United Kindom. |
| 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 |

Copyright antibodies-online. All rights reserved.

## 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 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: | 101.1 kDa |

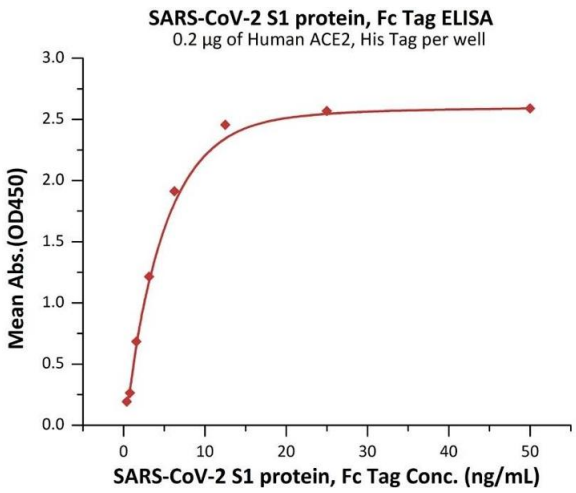
## Application Details

| | |
|---|---|
| Restrictions: | For Research Use only |

## Handling

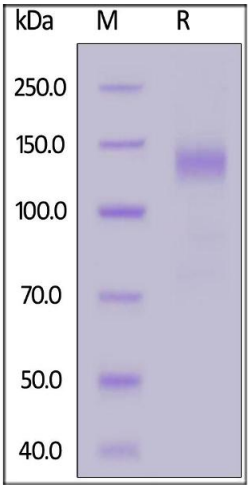
| | |
|---|---|
| Format: | Lyophilized |
| Buffer: | 50 mM Tris, 100 mM Glycine, 0.2 M Arginine, 150 mM NaCl, pH 7.5 |
| Storage: | -20 °C |

## Images



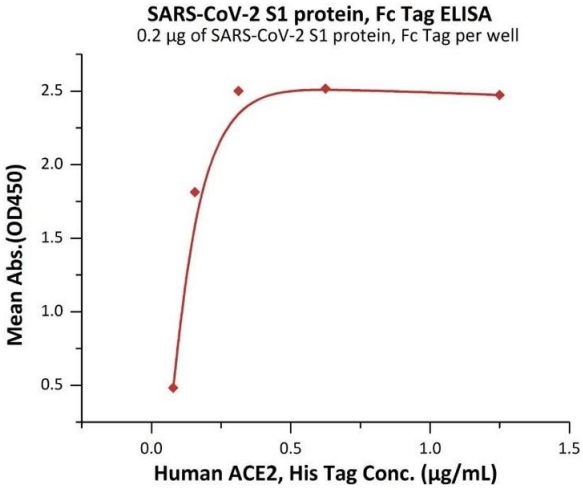

**ELISA**

**Image 1.** Immobilized Human ACE2, His Tag (ABIN6952618,ABIN6952641) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S1 protein, Fc Tag (ABIN6992403) with a linear range of 0.4-6 ng/mL (QC tested).




## SDS-PAGE

**Image 2.** SARS-CoV-2 S1 protein, Fc Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .




## ELISA

**Image 3.** Immobilized SARS-CoV-2 S1 protein, Fc Tag (ABIN6992403) at 2 µg/mL (100 µL/well) can bind Human ACE2, His Tag (ABIN6952618,ABIN6952641) with a linear range of 0.078-0.156 µg/mL (Routinely tested).