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Datasheet for ABIN6992400

**SARS-CoV-2 Spike Protein (B.1.351 - beta, RBD) (Fc Tag)****3** Images

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 100 µg   |
| Target:                       | SARS-CoV-2 Spike                                       |
| 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 protein is labelled with Fc Tag. |

## Product Details

|                  |   |
|------------------|---|
| Purpose:         | SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), Fc Tag (MALS verified)  |
| Sequence:        | AA 319-537  |
| Characteristics: | SARS-CoV-2 S protein RBD (K417N,E484K,N501Y), Fc Tag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (K417N, E484K, N501Y). The K417N, E484K, N501Y mutations were identified in the SARS-CoV-2 variant (known as B.1.351 or 20C/501Y.V2) 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 |
|---------|------------------|

## 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

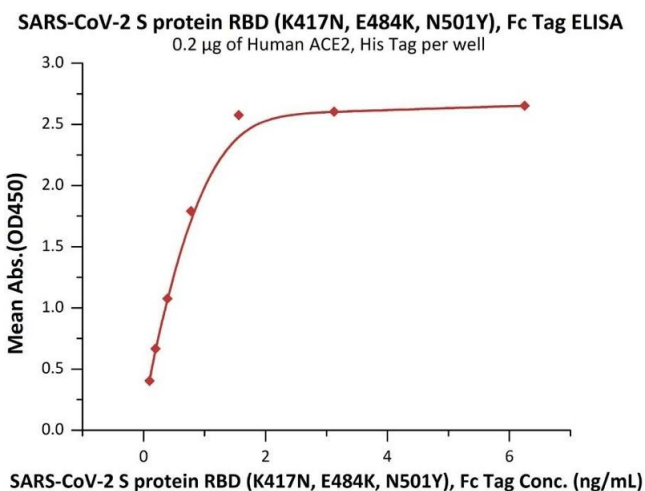
## Handling

Format: Lyophilized

Buffer: 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5

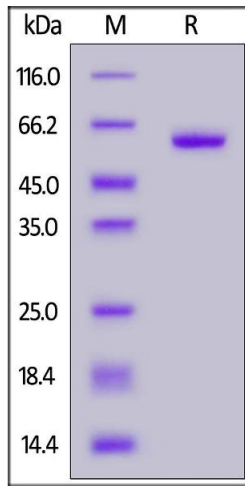
Storage: -20 °C

## Images



### ELISA

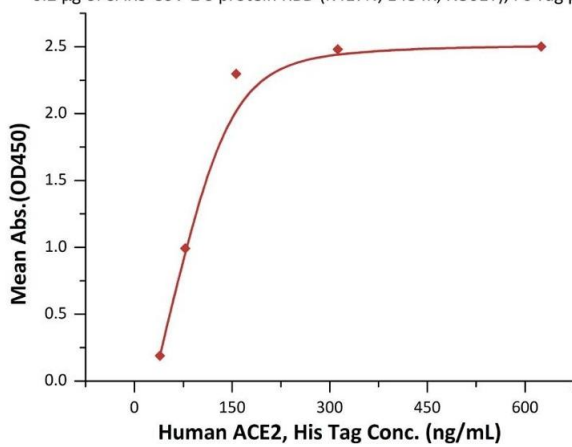
**Image 1.** Immobilized Human ACE2, His Tag (ABIN6952618, ABIN6952641) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), Fc Tag (ABIN6992400) with a linear range of 0.1-0.8 ng/mL (Routinely tested).



### SDS-PAGE

**Image 2.** SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), Fc 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), Fc Tag ELISA**  
 0.2 µg of SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), Fc Tag per well



### ELISA

**Image 3.** Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), Fc Tag (ABIN6992400) 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).