

Datasheet for ABIN6961175

SARS-CoV-2 Spike Protein (RBD) (mFc Tag)[2 Images](#)[1 Publication](#)[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | SARS-CoV-2 Spike |
| Protein Characteristics: | RBD |
| Origin: | SARS Coronavirus-2 (SARS-CoV-2) |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SARS-CoV-2 Spike protein is labelled with mFc Tag. |
| Application: | ELISA, Western Blotting (WB) |

Product Details

| | |
|------------------|---|
| Purpose: | Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD with C-terminal mouse Fc tag |
| Specificity: | S protein RBD (Arg319-Phe541) mFc (Pro99-Lys330) |
| Characteristics: | Extracellular Domain Protein |
| Purification: | Purified from cell culture supernatant by affinity chromatography |
| Purity: | The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining. |

Target Details

| | |
|-----------|---|
| Target: | SARS-CoV-2 Spike |
| Abstract: | SARS-CoV-2 Spike Products |

Target Details

| | |
|-------------------|--|
| Target Type: | Viral Protein |
| Background: | SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein is a type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which accounts for recognizing the cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell response. |
| Molecular Weight: | predicted molecular mass of 51.3 kDa after removal of the signal peptide. |
| Gene ID: | 43740568 |
| UniProt: | P0DTC2 |

Application Details

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

Handling

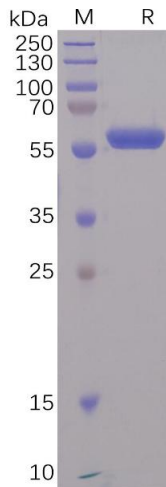
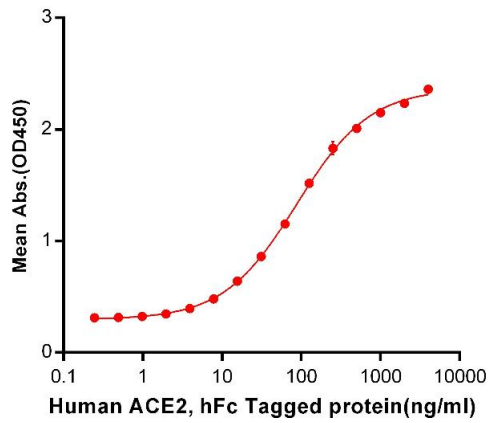
| | |
|------------------|--|
| Format: | Lyophilized |
| Buffer: | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Expiry Date: | 12 months |

Publications

| | |
|-------------------|--|
| Product cited in: | Wu, Wu, Wang, Liu, Chu, Jiang, Kwong, Chow, Li, Chen: "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees." in: Science advances , Vol. 8, Issue 22, pp. eabn6064, (2022) (PubMed). |
|-------------------|--|

S-RBD, mFc Tagged protein ELISA

0.2 µg of S-RBD, mFc Tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) S-RBD, mFc tagged protein (ABIN6961175, ABIN7042379 and ABIN7042380) can bind Human , hFc Tagged protein ABIN6961131, ABIN7042291 and ABIN7042292 in a linear range of 7.81-87.7 ng/mL.

SDS-PAGE

Image 2. SARS-CoV-2 (2019-nCoV) S protein RBD, mFc Tag on SDS-PAGE under reducing condition.