



[Go to Product page](#)

Datasheet for ABIN6952633

SARS-CoV-2 Spike S1 Protein (R408I, RBD) (His tag)

3 Images

2 Publications

Overview

| | |
|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | SARS-CoV-2 Spike S1 |
| Protein Characteristics: | R408I, RBD |
| Origin: | SARS Coronavirus-2 (SARS-CoV-2) |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SARS-CoV-2 Spike S1 protein is labelled with His tag. |
| Application: | ELISA, SDS-PAGE (SDS) |

Product Details

| | |
|------------------|--|
| Purpose: | SARS-CoV-2 (COVID-19) S protein RBD (R408I), His Tag |
| Sequence: | AA 319-541 |
| Characteristics: | SARS-CoV-2 S protein RBD (R408I), His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Phe 541 (Accession # QHD43416.1 (R408I). Predicted N-terminus: Arg 319 This protein carries a polyhistidine tag at the C-terminus. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

Target Details

| | |
|-------------------|---|
| Target: | SARS-CoV-2 Spike S1 |
| Abstract: | SARS-CoV-2 Spike S1 Products |
| Target Type: | Viral Protein |
| Background: | It's been reported that SARS-CoV-2 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: | 27.0 kDa |
| Gene ID: | 43740568 |
| UniProt: | P0DTC2 |

Application Details

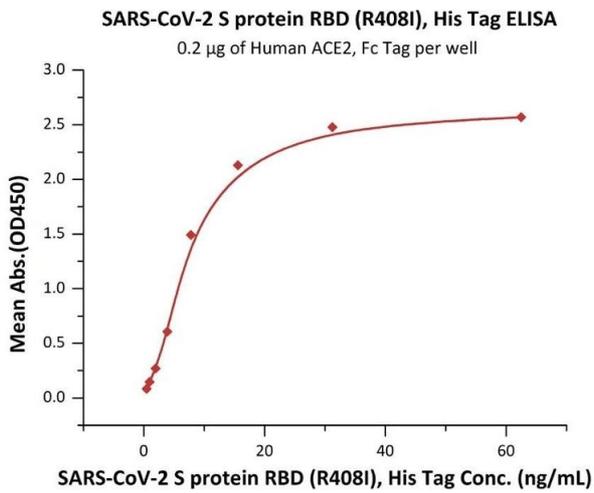
| | |
|--------------------|--|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

Handling

| | |
|------------------|--|
| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | 4 °C, -20 °C, -80 °C |
| Storage Comment: | For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution. |

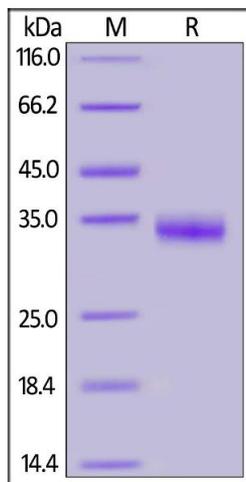
Publications

| | |
|-------------------|---|
| Product cited in: | Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991) |
|-------------------|---|



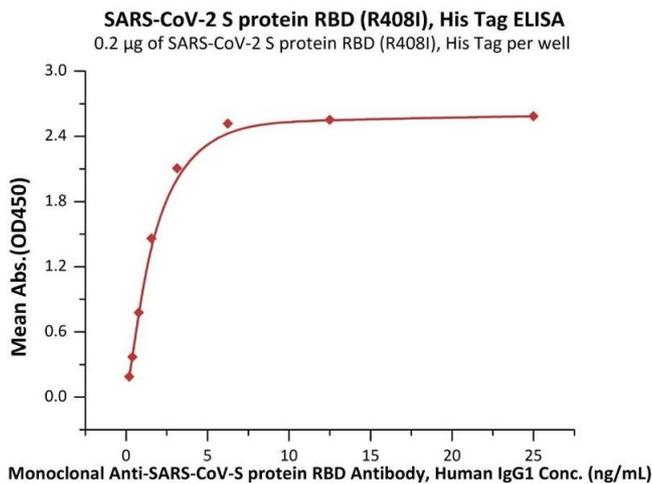
ELISA

Image 1. Immobilized Human ACE2, Fc Tag (ABIN6952465) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (R408I), His Tag (ABIN6952633) with a linear range of 0.5-8 ng/mL (QC tested).



SDS-PAGE

Image 2. SARS-CoV-2 S protein RBD (R408I), His Tag on SDS-PAGE 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 S protein RBD (R408I), His Tag (ABIN6952633) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 with a linear range of 0.2-3 ng/mL (Routinely tested).