

Datasheet for ABIN6952633

SARS-CoV-2 Spike S1 Protein (R408I, RBD) (His tag)[Go to Product page](#)[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:	<p>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</p> <p>This protein carries a polyhistidine tag at the C-terminus.</p>
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

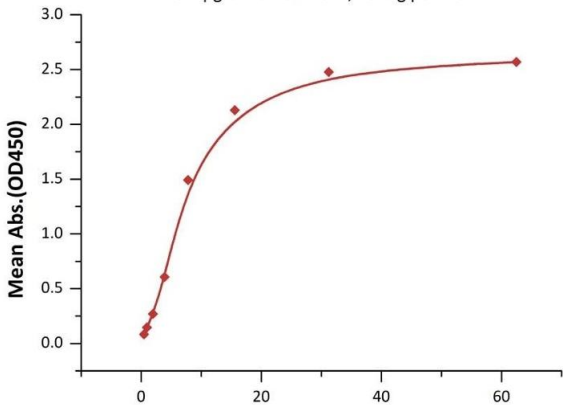
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in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

Publications

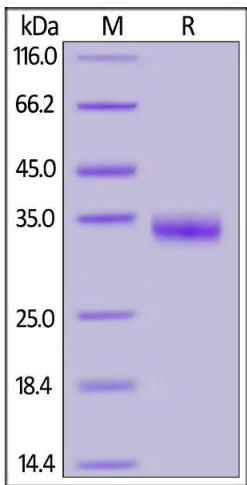
Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)
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SARS-CoV-2 S protein RBD (R408I), His Tag ELISA

0.2 µg of Human ACE2, Fc Tag per well

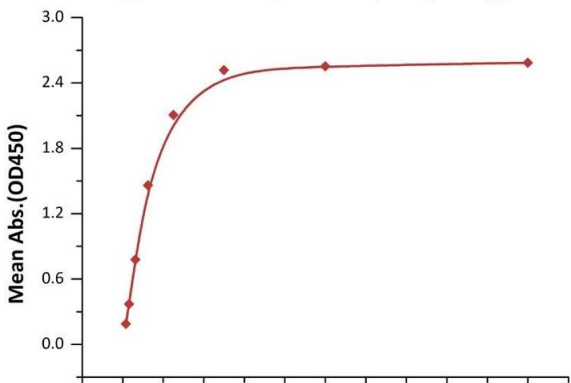


SARS-CoV-2 S protein RBD (R408I), His Tag Conc. (ng/mL)



SARS-CoV-2 S protein RBD (R408I), His Tag ELISA

0.2 µg of SARS-CoV-2 S protein RBD (R408I), His Tag per well



Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 Conc. (ng/mL)

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).