

Datasheet for ABIN6952624

**SARS-CoV-2 Spike S1 Protein (Fc Tag)****3** Images**1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
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 Fc Tag.
Application:	SDS-PAGE (SDS), ELISA

## Product Details

Purpose:	SARS-CoV-2 (COVID-19) S1 protein, 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). Predicted N-terminus: Val 16 This protein carries a human IgG1 Fc 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
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## Target Details

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Abstract:	<a href="#">SARS-CoV-2 Spike S1 Products</a>
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:	101.5 kDa
Gene ID:	43740568
UniProt:	<a href="#">P0DTC2</a>

## Application Details

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

## Handling

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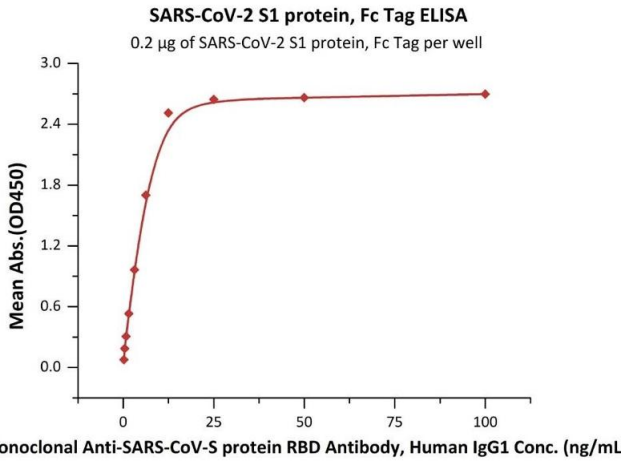
Format:	Lyophilized
Buffer:	Tris, Glycine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution.

## Publications

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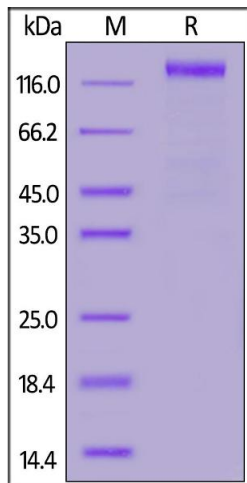
Product cited in:	Dogan, Kozhaya, Placek, Gunter, Yigit, Hardy, Plassmeyer, Coatney, Lillard, Bukhari, Kleinberg, Hayes, Ardit, Klapper, Merin, Liang, Gupta, Alpan, Unutmaz: "SARS-CoV-2 specific antibody and neutralization assays reveal the wide range of the humoral immune response to virus." in: <b>Communications biology</b> , Vol. 4, Issue 1, pp. 129, (2021) ( <a href="#">PubMed</a> ).
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Images



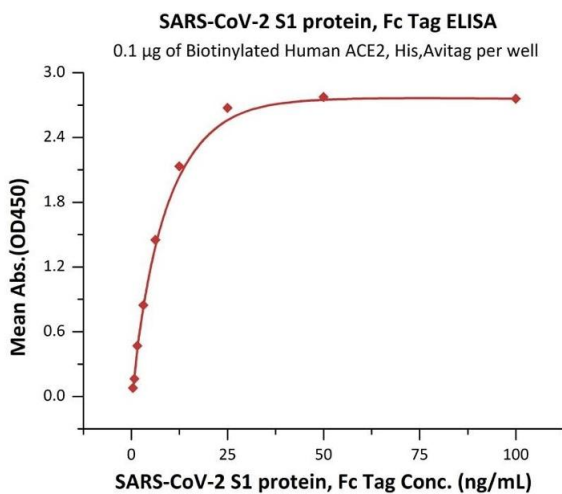
**ELISA**

**Image 1.** Immobilized SARS-CoV-2 S1 protein, Fc Tag (ABIN6952624) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 with a linear range of 0.2-13 ng/mL (Routinely tested).



**SDS-PAGE**

**Image 2.** SARS-CoV-2 S1 protein, Fc 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 Biotinylated Human ACE2, His,Avitag (ABIN6952428) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind SARS-CoV-2 S1 protein, Fc Tag (ABIN6952624) with a linear range of 0.4-13 ng/mL (QC tested).