Datasheet for ABIN6952462

SARS-CoV-2 Spike S1 Protein (RBD) (Fc Tag)

4 Images

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
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 S1 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 319-541
Characteristics:	2019-nCoV (COVID-19) S protein RBD, Fc Tag (MALS verified) is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Phe 541 (Accession # QHD43416.1). Predicted N-terminus: Arg 319 This protein carries a human IgG1 Fc tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-MALS.
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

Target Details

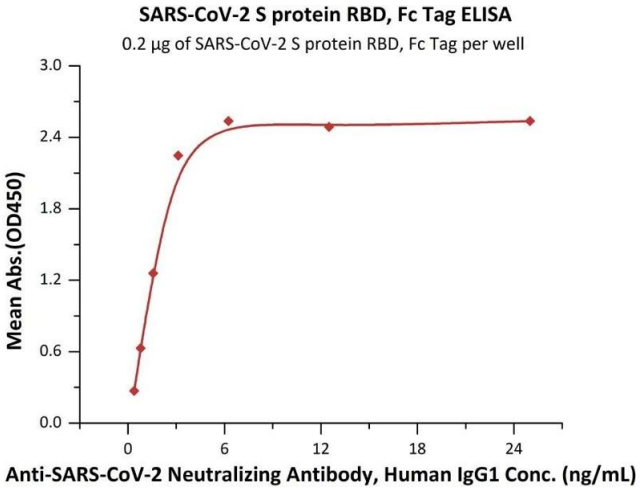
Background:	It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is 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:	51.5 kDa
Gene ID:	43740568
UniProt:	P0DTC2

Application Details

Application Notes:	The protein has a calculated MW of 51.5 kDa. The protein migrates as 58-65 kDa under reducing (R) condition due to glycosylation.
Restrictions:	For Research Use only

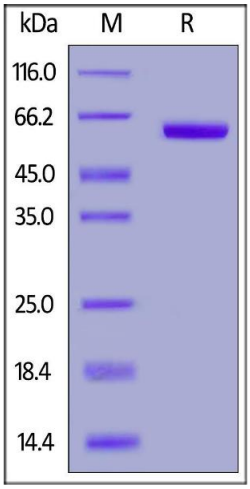
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-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 aftr storage at: -20°C to -70°C for 12 months in lyophilized state, -70°C for 3 months under sterile conditions after reconstitution.



ELISA

Image 1. Immobilized SARS-CoV-2 S protein RBD, Fc Tag (ABIN6952455,ABIN6952462) at 2 μg/mL (100 μL/well) can bind A-CoV-2 Neutralizing Antibody, Human IgG1 (SAD-S35) with a linear range of 0.4-3 ng/mL (Routinely tested).



SDS-PAGE

Image 2. 2019-nCoV (COVID-19) S protein RBD, Fc Tag (MALS verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

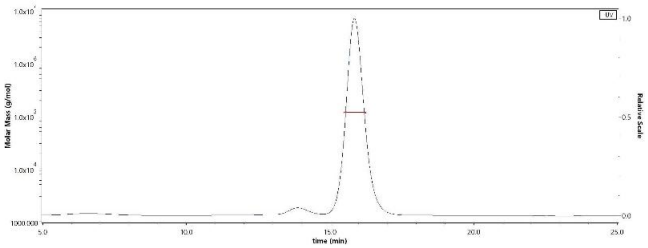


Image 3. The purity of 2019-nCoV (COVID-19) S protein RBD, Fc Tag (MALS verified) (ABIN6952455) was more than 90% in HP-SEC, and around 110-125 kDa verified by SEC-MALS.

Please check the product details page for more images. Overall 4 images are available for ABIN6952462.