

Datasheet for ABIN6952630

SARS-CoV-2 Spike S1 Protein (RBD, V367F) (His tag)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	RBD, V367F
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:	SDS-PAGE (SDS), ELISA

Product Details

Purpose:	SARS-CoV-2 (COVID-19) S protein RBD (V367F), His Tag
Sequence:	AA 319-541
Characteristics:	<p>SARS-CoV-2 S protein RBD (V367F), His Tag (SPD-S52H4) is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Phe 541 (Accession # QHD43416.1 (V367F). Predicted N-terminus: Arg 319</p> <p>This protein carries a polyhistidine tag at the C-terminus.</p> <p>The V367F mutation in the RBD of Spike protein shows a higher binding affinity to human ACE2.</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

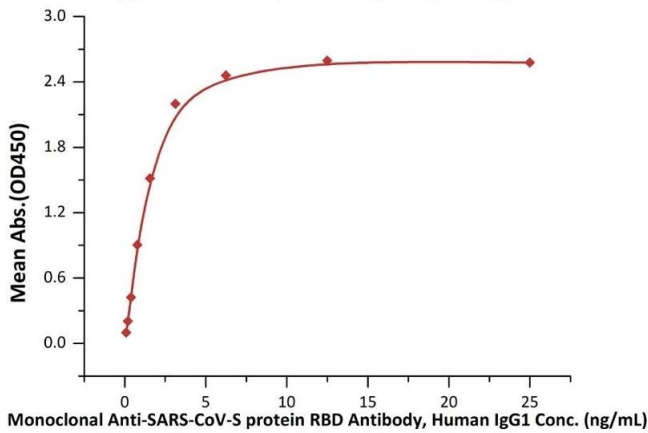
Product cited in:	Guo, Huang, Zhang, Yao, Zhou, Shen, Shen, Li, Li, Zhang, Chen, Chen, Wu, Fu, Zeng, Feng, Pi, Wang, Zhou, Lu, Li, Fang, Lu, Hu, Wang, Zhang, Gao, Adrian, Wang, Yu, Peng, Gabibov, Min, Wang, Huang et al.: "A SARS-CoV-2 neutralizing antibody with extensive Spike binding coverage
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and modified for optimal therapeutic outcomes. ..." in: **Nature communications**, Vol. 12, Issue 1, pp. 2623, (2021) ([PubMed](#)).

Images

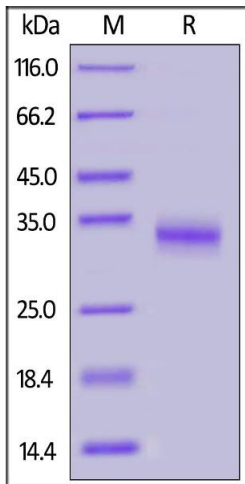
SARS-CoV-2 S protein RBD (V367F), His Tag ELISA

0.2 µg of SARS-CoV-2 S protein RBD (V367F), His Tag per well



ELISA

Image 1. Immobilized SARS-CoV-2 S protein RBD (V367F), His Tag (ABIN6952630) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 with a linear range of 0.1-3 ng/mL (Routinely tested).

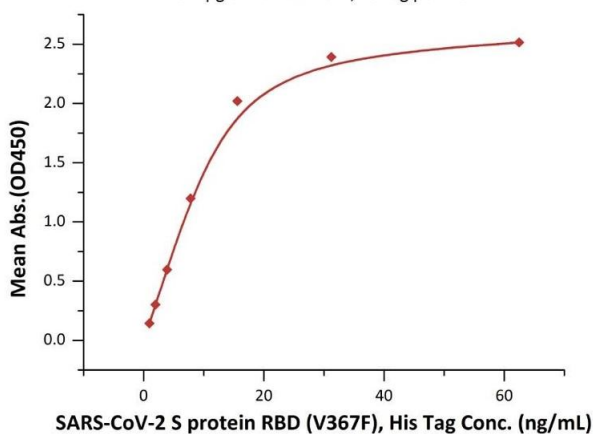


SDS-PAGE

Image 2. SARS-CoV-2 S protein RBD (V367F), 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 % .

SARS-CoV-2 S protein RBD (V367F), His Tag ELISA

0.2 µg of Human ACE2, Fc Tag per well



ELISA

Image 3. Immobilized Human ACE2, Fc Tag (ABIN6952465) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (V367F), His Tag (ABIN6952630) with a linear range of 1-16 ng/mL (QC tested).