

Datasheet for ABIN6952622

SARS-CoV S1 Protein (His tag)

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Overview

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

Product Details

Purpose:	SARS S1 protein, His Tag (MALS verified)
Sequence:	AA 14-667
Characteristics:	SARS S1 protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 14 - Arg 667 (Accession # AAP13567.1). Predicted N-terminus: Ser 14 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 S1
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Target Details

Alternative Name:	SARS-Coronavirus Spike Subunit S1 (SARS-CoV S1 Products)
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:	74.9 kDa

Application Details

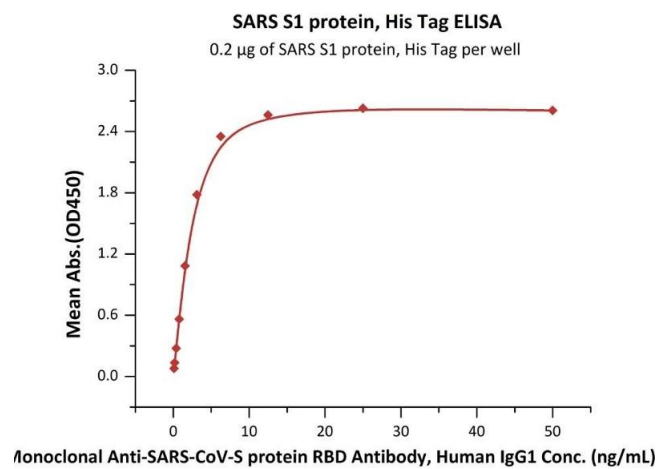
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

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.

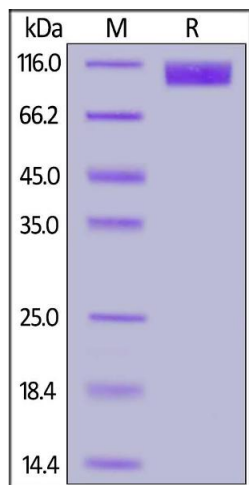
Publications

Product cited in:	Greaney, Loes, Gentles, Crawford, Starr, Malone, Chu, Bloom: "Antibodies elicited by mRNA-1273 vaccination bind more broadly to the receptor binding domain than do those from SARS-CoV-2 infection." in: Science translational medicine , (2021) (PubMed).
	Garrett, Galloway, Chu, Itell, Stoddard, Wolf, Logue, McDonald, Matsen, Overbaugh: "High resolution profiling of pathways of escape for SARS-CoV-2 spike-binding antibodies." in: bioRxiv : the preprint server for biology , (2020) (PubMed).



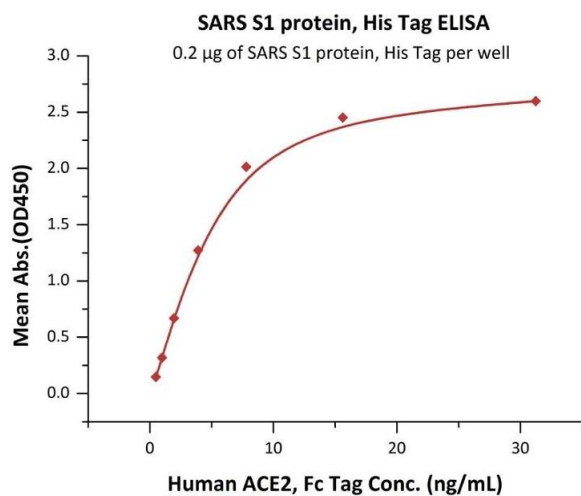
ELISA

Image 1. Immobilized SARS S1 protein, His Tag (ABIN6952622) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-SARS-CoV-S protein RBD Antibody, Human IgG1 with a linear range of 0.1-6 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS S1 protein, 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 S1 protein, His Tag (ABIN6952622) at 2 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag (ABIN6952465) with a linear range of 0.4-8 ng/mL (QC tested).