



Datasheet for ABIN7013276

SARS-CoV Spike Protein (AA 14-1195) (His tag)



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3 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV Spike (SARS-CoV S)
Protein Characteristics:	AA 14-1195
Origin:	SARS Coronavirus (SARS-CoV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV Spike protein is labelled with His tag.

Product Details

Sequence:	AA 14-1195
Characteristics:	SARS S protein (R667A, K968P, V969P), His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 14 - Pro 1195 (Accession # AAP13567.1(R667A, K968P, V969P). The recombinant protein is expressed with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus. Proline substitutions (K968P, V969P) and alanine substitutions (R667A) are introduced to stabilize the trimeric prefusion state of SARS-CoV S protein and abolish the furin cleavage site, respectively.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV Spike (SARS-CoV S)
Alternative Name:	SARS S protein (SARS-CoV S 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:	136.3 kDa

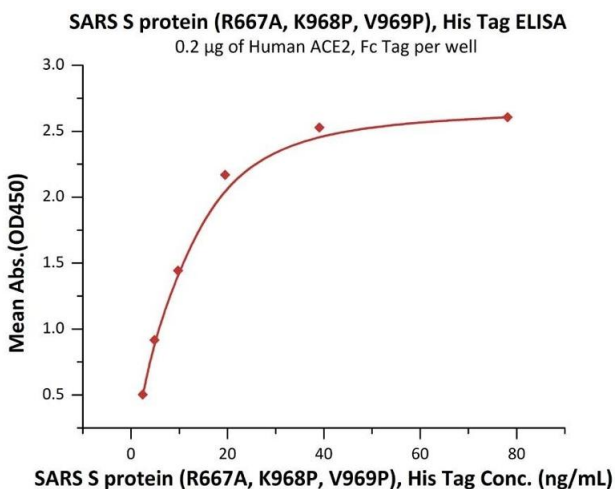
Application Details

Application Notes:	MALS verified
Restrictions:	For Research Use only

Handling

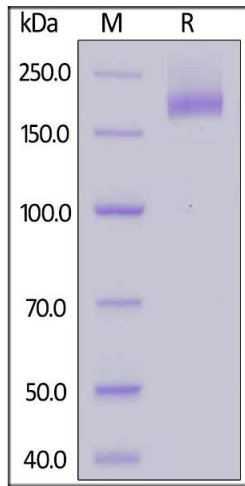
Format:	Lyophilized
Buffer:	PBS
Storage:	-20 °C

Images



ELISA

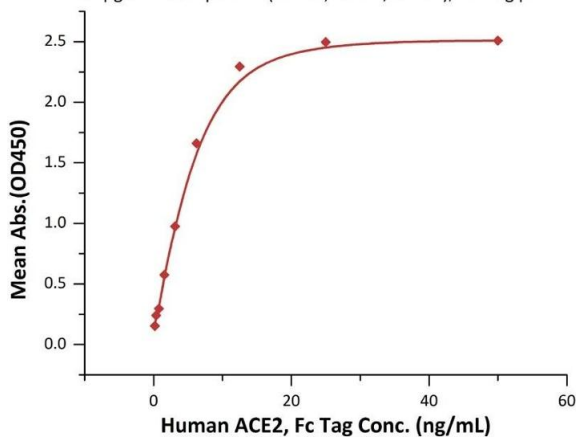
Image 1. Immobilized Human ACE2, Fc Tag (ABIN6952459, ABIN6952465) at 2 µg/mL (100 µL/well) can bind SARS S protein (R667A, K968P, V969P), His Tag (ABIN6973214) with a linear range of 2-20 ng/mL (Routinely tested).



SDS-PAGE

Image 2. SARS S protein (R667A, K968P, V969P), His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

SARS S protein (R667A, K968P, V969P), His Tag ELISA
0.2 µg of SARS S protein (R667A, K968P, V969P), His Tag per well



ELISA

Image 3. Immobilized SARS S protein (R667A, K968P, V969P), His Tag (ABIN6973214) at 2 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag (ABIN6952459, ABIN6952465) with a linear range of 0.2-6 ng/mL (QC tested).