Datasheet for ABIN6952742

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

2 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
Biological Activity:	Active
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with mFc Tag.
Application:	SDS-PAGE (SDS), Functional Studies (Func)

Product Details

Sequence:	RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNRKRI SNCVADYSVL YNSASFSTFK CYGVSPTKLN DLCFTNVYAD SFVIRGDEVR QIAPGQTGKI ADYNYKLPDD FTGCVIAWNS NNLDSKVGGN YNYLYRLFRK SNLKPFERDI STEIYQAGST PCNGVEGFNC YFPLQSYGFQ PTNGVGYQPY RVVVLSFELL HAPATVCGPK KSTNLVKNKC VNF
Specificity:	Arg319-Phe541
Characteristics:	Recombinant 2019-nCoV Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of 2019-ncov Spike RBD (Accession #YP_009724390.1) fused with a mFc tag at the C-terminus.
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	< 0.1 EU/μg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ACE2 Protein at 2 μg/mL (100 μL/well) can bind Recombinant SARS-COV-2 Spike RBD-mFc Protein, the EC_{50} of Recombinant SARS-COV-2 Spike RBD-mFc Protein is 2.58 ng/mL.

Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	Envelope,SARS-CoV-2 Spike RBD (N501Y),Spike,Spike ECD,Spike RBD,Spike S1,Spike S2,Spike S2 ECD,S1-RBD protein,NCP-CoV RBD Protein,novel coronavirus RBD Protein,2019-nCoV RBD Protein,S glycoprotein Subunit1 RBD Protein
Gene ID:	43740568
UniProt:	P0DTC2

Application Details

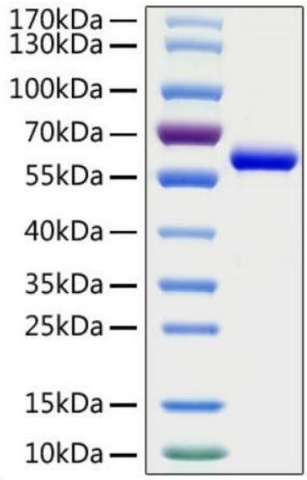
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.|or This product is stable at ≤ -70°C for up to 6 months from the date of receipt. |For optimal storage, aliquot into smaller

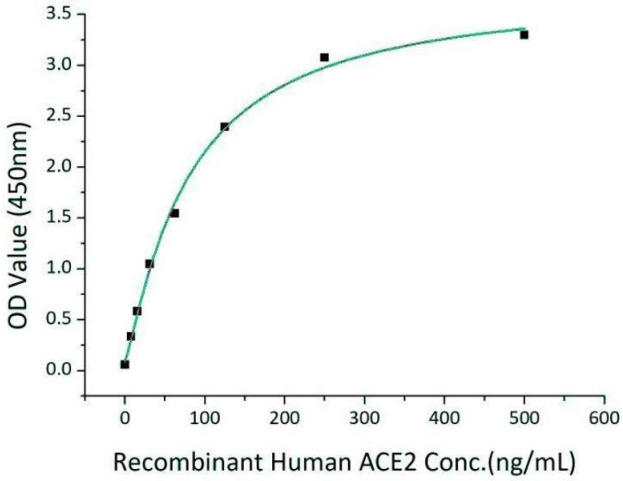
quantities after centrifugation and store at recommended temperature.

Validation report #104432 for ELISA (ELISA)



SDS-PAGE

Image 1. Recombinant 2019-nCoV Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60 kDa.



ELISA

Image 2. Immobilized Recombinant 2019-nCoV RBD-mFc at 2 μg/mL (100 μL/well) can bind Recombinant Human ACE2 with a linear range of 8-80 ng/mL.