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Datasheet for ABIN6952734

## SARS-CoV-2 Spike Protein (ECD) (His tag)

2 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	ECD
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 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Functional Studies (Func)

### Product Details

Sequence: VSSQCVNLTT RTQLPPAYTN SFTRGVVYPD KVFRSSVLHS TQDLFLPFFS NVTWFHAIHV  
SGTNGTKRFD NPVLPFNDGV YFASTEKSNIRGWIFGTTL DSKTQSLIV NNATNVVIKV  
CEFQFCNDPF LGVYYHKNNK SWMESEFRVY SSANNCTFEY VSQPFLMDLE GKQGNFKNLR  
EFVFKNIDGY FKIYSKHTPI NLVRDLPQGF SALEPLVDLP IGINITRFQT LLALHRSYLT  
PGDSSSGWTA GAAAYVGYL QPRTFLLKYN ENGTITDAVD CALDPLSETK CTLKSFTVEK  
GIYQTSNFRV QPTESIVRFP NITNLCPFGE VFNATRFASV YAWNRKRISN CVADYSVLIN  
SASFSTFKCY GVSPTKLNLD CFTNVYADSF VIRGDEVRQI APGQTGKIAD YNYKLPDDFT  
GCVIAWNSNN LDSKVGGNYN YLYRLEFRKSN LKPFERDIST EIYQAGSTPC NGVEGFNCYF  
PLQSYGFQPT NGVGYQPYRV VVLSFELLHA PATVCGPKKS TNLVKNKCVN FNFNGLTGTG  
VLTESNKKFL PFQQFGRDIA DTTDAVRDPQ TLEILDITPC SFGGVSVITP GTNTSNQVAV  
LYQDVNCTEV PVAIHADQLT PTWRVYSTGS NVFQTRAGCL IGAEHVNSY ECDIPIGAGI

## Product Details

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CASYQTQTNS PRRARSVASQ SIIAYTMSLG AENSVAYSNN SIAIPTNFTI SVTTEILPVS  
MTKTSVDCTM YICGDSTECN NLLLQYGSFC TQLNRALTGI AVEQDKNTQE VFAQVKQIYK  
TPPIKDFGGF NFSQILPDPS KPSKRSFIED LLFNKVTLAD AGFIKQYGDC LGDIAARDLI  
CAQKFNGLTV LPPLLTDEMI AQYTSALLAG TITSGWTFGA GAALQIPFAM QMAYRFNGIG  
VTQNVLYENQ KLIANQFNSA IGKIQDSLSS TASALGKLQD VVNQNAQALN TLVKQLSSNF  
GAISSVLNDI LSRLDKVEAE VQIDRLITGR LQSLQTYVTQ QLIRAAEIRA SANLAATKMS  
ECVLGQSKRV DFCGKGYHLM SFPQSAPHGV VFLHVTVVPA QEKNFTTAPA ICHDGKAHFP  
REGVFSNGT HWFVTQRNFY EPQIITDNT FVSGNCDVVI GIVNNTVYDP LQPELDSFKE  
ELDKYFKNHT SPDVDLGDIS GINASVVNIQ KEIDRLNEVA KNLNESLIDL QELGKYEQ

Specificity:	Val11-Gln1208
Characteristics:	Recombinant 2019-nCoV S1+S2 ECD (S-ECD) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val11-Gln1208) of 2019-ncov S1+S2 ECD (S-ECD) (Accession #YP_009724390.1) fused with a 6xHis tag at the C-terminus.
Purity:	>97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
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 SARS-CoV-2 Spike S1+S2 ECD-His at 2 µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 0.15-9.92 ng/mL.

## Target Details

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Target:	SARS-CoV-2 Spike
Abstract:	<a href="#">SARS-CoV-2 Spike Products</a>
Target Type:	Viral Protein
Background:	<p>Description: The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.</p> <p>Name: 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</p>
Gene ID:	43740568

## Target Details

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UniProt: [P0DTC2](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.95 mg/mL

Buffer: Supplied as a 0.22 µm filtered solution in PBS, pH 7.4.

Handling Advice: Avoid repeated freeze-thaw cycles.

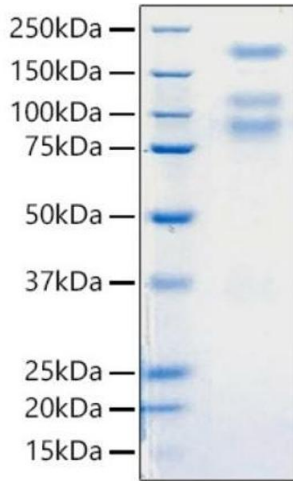
Storage: -80 °C

Storage Comment: 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. Avoid repeated freeze-thaw cycles.

## Publications

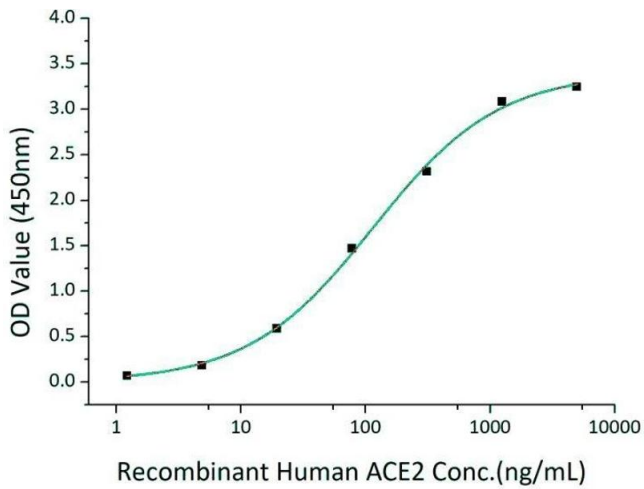
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Product cited in: Schlör, Hirschberg, Amor, Meister, Arora, Pöhlmann, Hoffmann, Pfaender, Eddin, Kamhieh-Milz, Hanack: "SARS-CoV-2 neutralizing camelid heavy-chain-only antibodies as powerful tools for diagnostic and therapeutic applications." in: **Frontiers in immunology**, Vol. 13, pp. 930975, (2022) ([PubMed](#)).



### SDS-PAGE

**Image 1.** Recombinant 2019-nCoV S1+S2 ECD (S-ECD) Protein was determined by SDS-PAGE with Coomassie Blue, showing bands around 80, 110, 180 kDa.



### ELISA

**Image 2.** Immobilized Recombinant 2019-nCoV Spike S1+S2 ECD-His at 2 µg/mL (100 µL/well) can bind Recombinant Human ACE2 with a linear range of 1.5-115.4 ng/mL.