

Recombinant SARS-CoV Spike S1 Protein, His-tagged

Cat. No. S-199S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV Spike Protein S1 (14-680) was expressed in CHO cells using a C-terminal His tag.
Species	SARS-CoV
Source	CHO
ProteinLength	14-680
Description	The severe acute respiratory syndrome related novel coronavirus (SARS-CoV) has caused the 2002-2003 SARS epidemic that broke out in southern China, which spread to other regions of Asia, Europe and North America. The spike glycoprotein (S) of coronavirus belongs to the type I transmembrane protein containing two subunits, S1 and S2, which is also known to be the key component to bind with host cells through the interaction with angiotensin-converting enzyme 2 (ACE2). SARS-CoV can specifically recognize ACE2 through its receptor binding domain (RBD) of S1 to initiate viral infection in humans.
Molecular Mass	125 kDa
Purity	>90%
Applications	ELISA
Storage	Store product at –70 centigrade. For optimal storage, aliquot targets into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µL

Storage Buffer Recombinant protein stored in 50mM sodium phosphate, pH 7.5, 300mM NaCl, 150mM imidazole.

GENE INFORMATION

Gene Name S spike glycoprotein [SARS coronavirus Tor2]

Official Symbol S

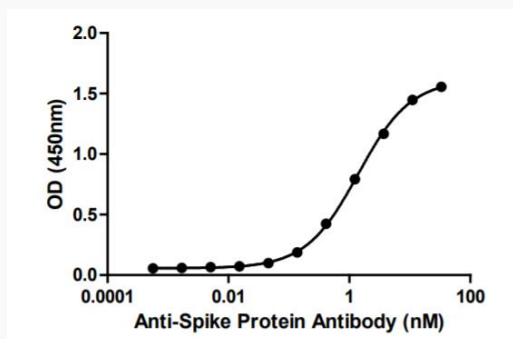
Synonyms S; spike glycoprotein; E2

Gene ID 1489668

Protein Refseq NP_828851

UniProt ID P59594

Activity



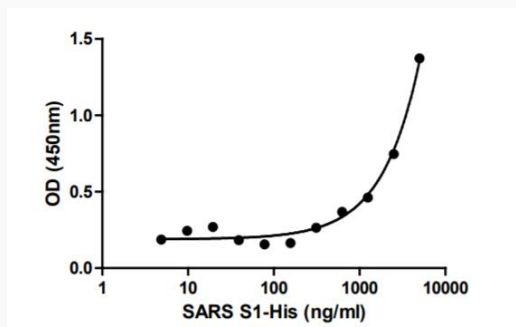
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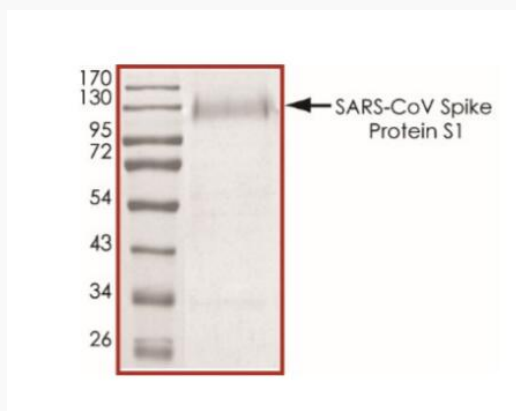
Binding ability measured in a functional ELISA. Anti-2019-nCoV Spike Protein binds to immobilized SARS-CoV Spike Protein S1 (His tag).

Activity



Binding ability measured in a functional ELISA. Immobilized human ACE2(19-740) protein (Fc tag) can bind to SARS-CoV Spike Protein S1 (His tag).

SDS-PAGE



The purity of SARS-CoV Spike Protein S1 was determined to be 90% by densitometry, approx. MW 125 kDa.