

Recombinant SARS-CoV Spike RBD Protein, Fc-tagged

Cat. No. S-197S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV Spike Protein RBD (318-510) was expressed in CHO cells using a C-terminal human IgG1 Fc tag.
Species	SARS-CoV
Source	CHO
ProteinLength	318-510
Description	<p>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.</p>
Molecular Mass	65 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 1 µg/µL

Storage Buffer Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 90mM Glycine.

GENE INFORMATION

Gene Name S spike glycoprotein [SARS coronavirus Tor2]

Official Symbol S

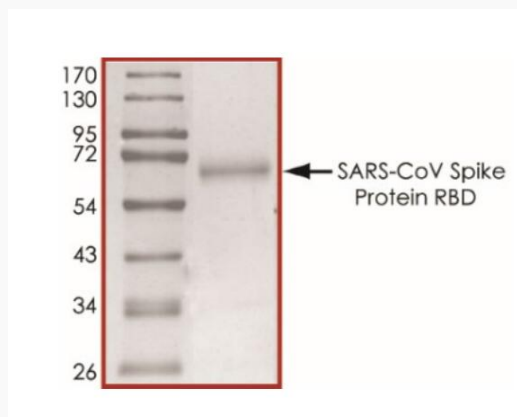
Synonyms S; spike glycoprotein; E2

Gene ID 1489668

Protein Refseq NP_828851

UniProt ID P59594

SDS-PAGE



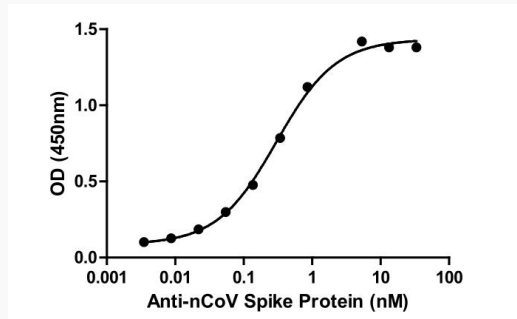
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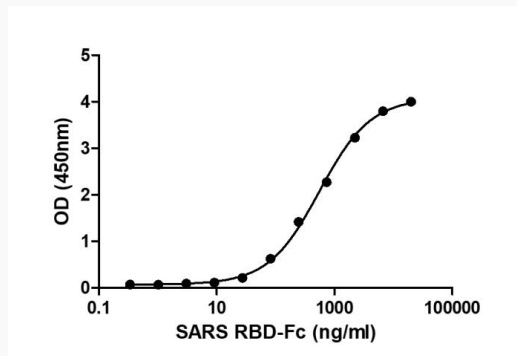
The purity of SARS-CoV RBD was determined to be 90% by densitometry, approx.
MW 150 kDa.

Activity



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

Activity



Binding ability measured in a functional ELISA. Immobilized human ACE2(19-740) protein (Fc tag) (A51C2-G341F) can bind to SARS-CoV spike protein RBD (Fc tag).

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