

Recombinant 2019-nCoV Spike Protein S1 (Δ 69-70 Δ 144 N501Y A570D D614G P681H), His-tagged

Cat. No. S-216C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 2019-nCoV Spike protein S1 (Δ 69-70 Δ 144 N501Y A570D D614G P681H) (16-685) was expressed in CHO cells using a C-terminal His-tag.
Species	Sars-Cov-2
Source	CHO
ProteinLength	16-685
Description	The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. The SARS-CoV-2 spike (S) protein is composed of two subunits; the S1 subunit contains a receptor-binding domain that engages with the host cell receptor angiotensin-converting enzyme 2 and the S2 subunit mediates fusion between the viral and host cell membranes. The S RBD protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV-2 (2019-nCoV) as in recent COVID-19 outbreak.
Molecular Mass	125 kDa

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Purity	>90%
Applications	ELISA
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot targets into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.5 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.5, 300mM NaCl, 150mM imidazole.

GENE INFORMATION

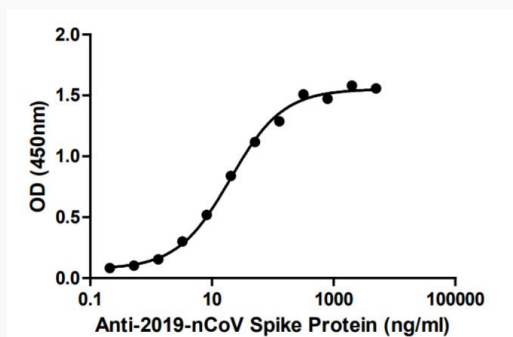
Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein
Gene ID	43740568
mRNA Refseq	MN908947
Protein Refseq	YP_009724390

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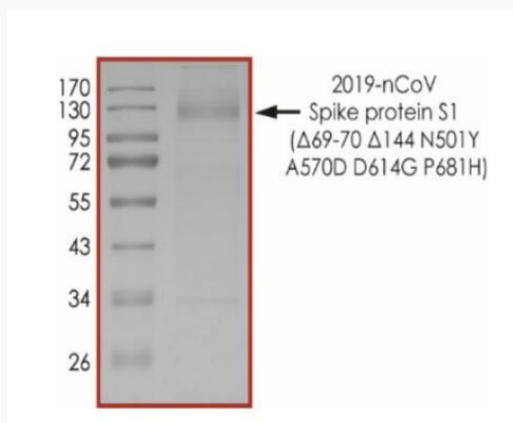
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Activity



Binding of 2019-nCoV spike protein ($\Delta 69-70$ $\Delta 144$ N501Y A570D D614G P681H) to anti-2019-nCoV spike protein antibody was determined by ELISA.

SDS-PAGE



The purity of nCoV-S1 ($\Delta 69-70$ $\Delta 144$ N501Y A570D D614G P681H) was determined to be 90% by densitometry, observed approx. MW 125 kDa.