

# Recombinant SARS-CoV Spike S1 Protein, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV Spike Protein S1 (14-680) was expressed in CHO cells using a C-terminal His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | SARS-CoV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 14-680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 125 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | 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

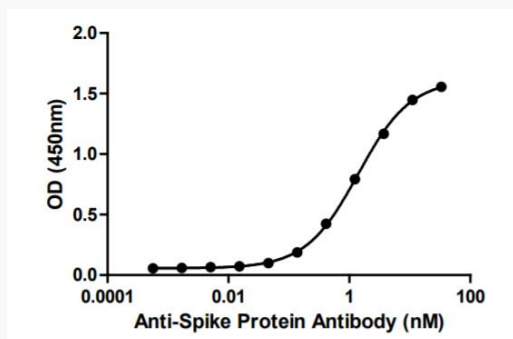
**Synonyms** S; spike glycoprotein; E2

**Gene ID** 1489668

**Protein Refseq** NP\_828851

**UniProt ID** P59594

**Activity**



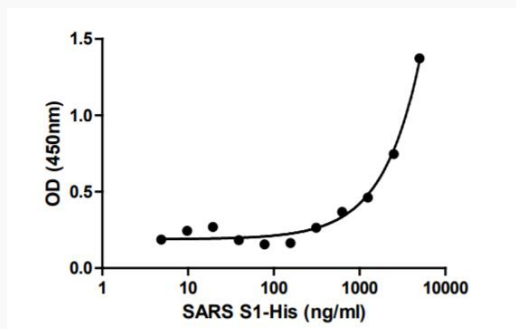
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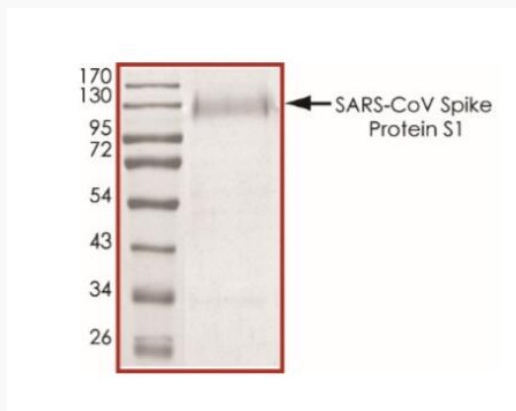
Binding ability measured in a functional ELISA. Anti-2019-nCoV Spike Protein binds to immobilized SARS-CoV Spike Protein S1 (His tag).

### 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.