

## Recombinant SARS-CoV-2 S Protein (RBD) (Arg319-Phe541), C-His-tagged

Cat. No. S-653S    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant SARS-CoV-2, S1 Subunit Protein (RBD) with C-terminal His tag, derived from the transfected human HEK293 cells.

#### Species

SARS-CoV-2

#### Source

HEK293

#### ProteinLength

Arg319-Phe541

#### Description

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

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|                       |                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Liquid                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b> | Recombinant protein product has a calculated molecular mass of 25 kDa. Due to the abundant glycosylation, it migrates as approximately 30 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.              |
| <b>Purity</b>         | > 95%, SDS-PAGE under reducing conditions and visualized by Coomassie blue staining.                                                                                                                                                      |
| <b>Applications</b>   | Lateral flow, indirect ELISA, sandwich ELISA, glycosylation analysis, binding assay, antibody generation, hybridoma screening, western blotting, biotin/dye/bead conjugation, binder selection, crystallization, and vaccine development. |
| <b>Notes</b>          | This product is furnished for LABORATORY RESEARCH USE ONLY.<br>Not for diagnostic or therapeutic use.                                                                                                                                     |
| <b>Storage</b>        | Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.                    |
| <b>Storage Buffer</b> | Supplied as a 0.2 um filtered solution in PBS (pH 7.4)                                                                                                                                                                                    |
| <b>Shipping</b>       | Ice packs                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b>       | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ] |
| <b>Official Symbol</b> | S                                                                          |
| <b>Synonyms</b>        | S; surface glycoprotein; structural protein; spike protein                 |

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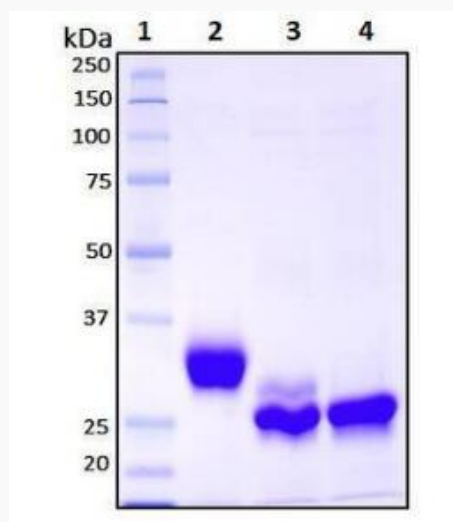
 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID 43740568

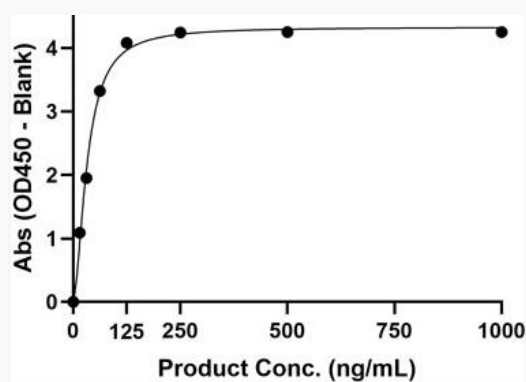
Protein Refseq YP\_009724390

UniProt ID P0DTC2

SDS-PAGE



Binding Function



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