

# Active Recombinant SARS-CoV-2 Spike protein RBD Protein, HRP conjugated, His-tagged

**Cat. No.** S-1004S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant 2019-nCoV Spike protein S1 subunit, RBD (319-541) was expressed in CHO cells using a C-terminal his tag, and then conjugated to Horse peroxidase (HRP).                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | SARS-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 319-541 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | The severe acute respiratory syndrome related novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world in 2020. The spike glycoprotein (S) of coronavirus belongs to the type I transmembrane protein, which contains 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). A receptor binding domain (RBD) of S1 can recognize the cell surface receptor and the mutation of RBD could cause higher motility rate. |
| <b>Bio-activity</b>     | Binding ability measured in a functional ELISA. 2019-nCoV Spike protein RBD binds to immobilized human ACE2 (19-740) protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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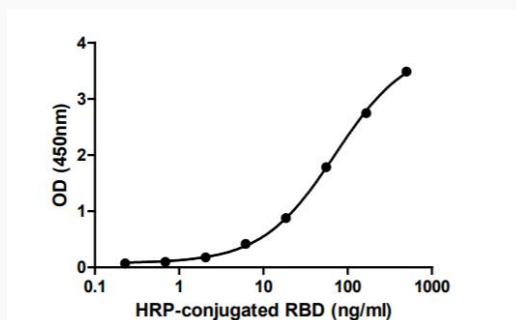
|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | One year at -20 centigrade from date of shipment.                                                                                                                                                                                                |
| <b>Storage</b>          | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| <b>Concentration</b>    | 0.2 µg/µL                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 1×PBS, pH 7.4 and 50% glycerol.                                                                                                                                                                                                                  |
| <b>Conjugation</b>      | HRP                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]                                                                                                                                                                       |
| <b>Official Symbol</b>  | S                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein                                                                                                                                             |
| <b>Gene ID</b>          | 43740568                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>      | MN908947                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | YP_009724390                                                                                                                                                                                                                                     |

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## Activity



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