

RP01282

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# Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01282

Recombinant

## Sequence Information

| Species    | Gene ID  | Swiss Prot |
|------------|----------|------------|
| SARS-CoV-2 | 43740568 | P0DTC2     |

### Tags

C-His&Avi

### Synonyms

Envelope;SARS-CoV-2 Spike RBD (N501Y);Spike;Spike ECD;Spike RBD;Spike S1;Spike S2;Spike S2 ECD;S1-RBD protein;NCP-CoV RBD Protein;novel coronavirus RBD Protein;2019-nCoV RBD Protein;S glycoprotein Subunit1 RBD Protein

## Product Information

| Source       | Purification                     |
|--------------|----------------------------------|
| HEK293 cells | > 95% by SDS-PAGE.> 95% by HPLC. |

### Endotoxin

< 1.0 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4 or Supplied as a 0.22 μm filtered solution in PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

### Basic Information

#### Description

Recombinant SARS-CoV-2 Spike RBD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of sars-cov-2 Spike RBD (Accession #YP\_009724390.1) fused with a 6xHis-Avi tag at the C-terminus.

#### Bio-Activity

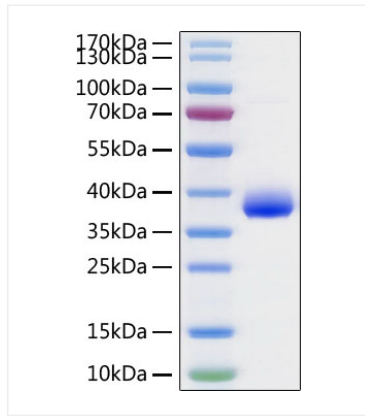
Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2 Spike RBD at 2 μg/mL (100 μL/well) can bind recombinant Human ACE2 with a linear range of 0.03-3.16 ng/mL.

#### Storage

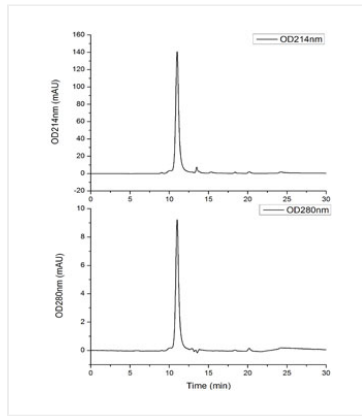
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. or This liquid product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Avoid repeated freeze/thaw cycles.

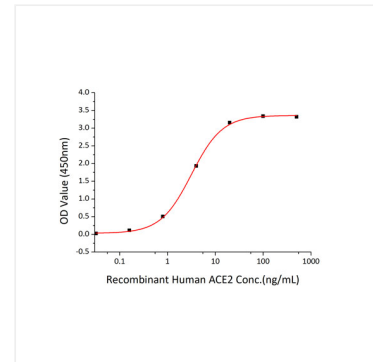
## Validation Data



Recombinant SARS-CoV-2 Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38 kDa.



The purity of SARS-COV-2 Spike RBD Protein with Avi and His tag (Cat.RP01282LQ) was greater than 95% as determined by SEC-HPLC.



Immobilized SARS-CoV-2 Spike RBD at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind recombinant Human ACE2 with a linear range of 0.03-3.16 ng/mL.