

Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01258 **Recombinant** **8 Publications**

Sequence Information

Species	Gene ID	Swiss Prot
SARS-CoV-2	43740568	

Tags

C-His

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

Calculated MW	Observed MW
25.94 kDa	35-40 kDa

Endotoxin

< 0.1 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

Background

Basic Information

Description

Recombinant SARS-CoV-2(2019-nCoV) Spike RBD-His Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of SARS-COV-2(2019-nCoV) Spike RBD-His (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

1.Measured by its binding ability in a functional ELISA.Immobilized SARS-CoV-2 Spike RBD (Catalog: RP01258) at 2 μg/mL (100 μL/well) can bind Human ACE-2 (Catalog: RP01275) with a linear range of 0.001-2.96 ng/mL.2.Immobilized human ACE2 on COOH Chip, can bind SARS-COV-2 Spike RBD Protein with an affinity constant of 35.3 nM as determined in a SPR assay (Nicoya OpenSPR).3.Measured by its binding ability in a functional ELISA.Immobilized SARS-CoV-2 Spike RBD (Catalog: RP01258) at 2 μg/mL (100 μL/well) can bind Human ACE-2 (Catalog: RP01275) with a linear range of 0.001-1.69 ng/mL.

Storage

Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

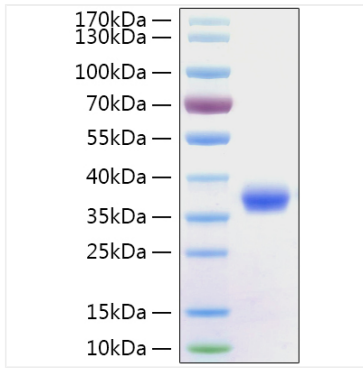
Avoid repeated freeze/thaw cycles.

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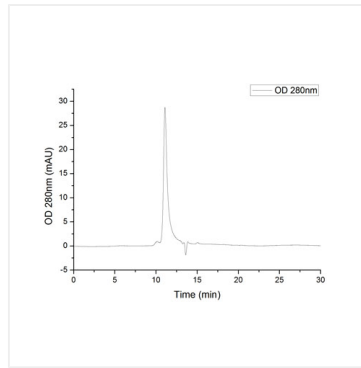
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

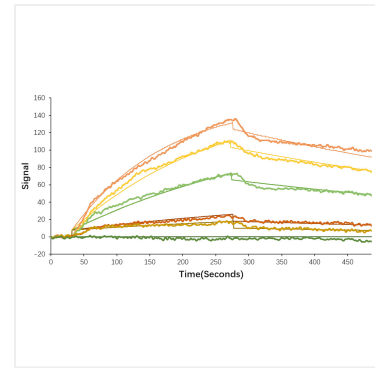
Validation Data



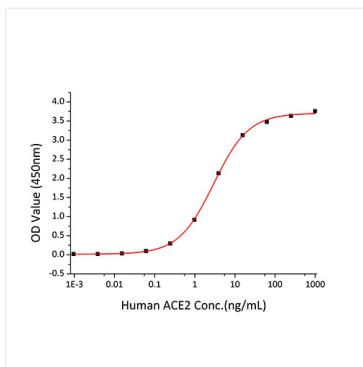
Recombinant SARS-CoV-2 Spike RBD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.



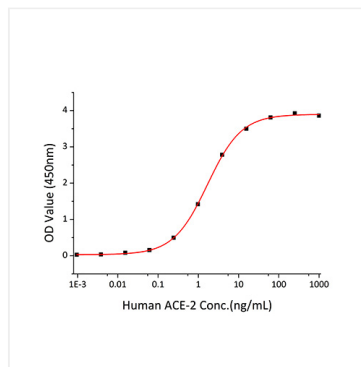
The purity of SARS-CoV-2 Spike RBD Protein with His tag (Cat.RP01258) was greater than 95% as determined by SEC-HPLC.



Immobilized human ACE2 on COOH Chip, can bind SARS-CoV-2 Spike RBD Protein with an affinity constant of 35.3 nM as determined in a SPR assay (Nicoya OpenSPR).



Immobilized SARS-CoV-2 Spike RBD (Catalog: RP01258) at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Human ACE-2 (Catalog: RP01275) with a linear range of 0.001-2.96 ng/mL.



Immobilized SARS-CoV-2 Spike RBD (Catalog: RP01258) at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Human ACE-2 (Catalog: RP01275) with a linear range of 0.001-1.69 ng/mL.