RP01258

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Recombinant SARS-CoV-2 Spike RBD Protein

Catalog No.: RP01258 Recombinant 8 Publications

Sequence Information

Background

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

HEK293 cells

Purification >95% by SDS-PAGE;> 95% by HPLC

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 votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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www.abclonal.com

Basic Information

Description

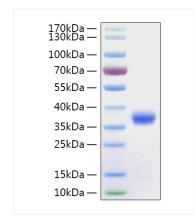
Recombinant SARS-CoV-2(2019-nCoV) Spike RBD-His Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541) of SARS-COV-2(2019-nCoV) Spike RBD-His (Accession #YP_009724390.1) fused with a 6×His tag at the C-terminus.

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 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 product is stable at \leq -70°C for up to 6 months from the date of receipt.
br/>For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.



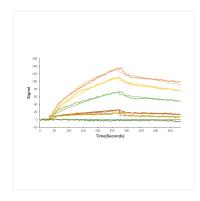
Recombinant SARS-CoV-2 Spike RBD Protein

Coomassie Blue, showing a band at 36 kDa.

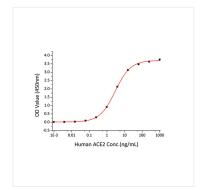
was determined by SDS-PAGE with

00 280mm

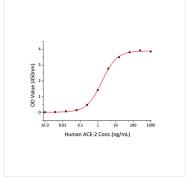
The purity of SARS-COV-2 Spike RBD Protein with His tag (Cat.RP01258) was greater than 95% as determined by SEC-HPLC.



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 µg/mL (100 µL/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 µg/mL (100 µL/well) can bind Human ACE-2 (Catalog: RP01275) with a linear range of 0.001-1.69 ng/mL.