Recombinant SARS-CoV-2 Spike RBD(B.1.640.2 /IHU) Protein

Catalog No.: RP02104

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Sequence Information

Species	Gene ID
SARS-CoV-2	43740568
Swiss Prot	**Tags**
QHD43416.1	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 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MWObserved MW

40 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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 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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Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Basic Information

Description

Recombinant SARS-CoV-2(2019-nCoV) Spike RBD(B.1.640.2/IHU)-His Protein is produced by Expi293 cells expression system. The target protein is expressed with sequence (Arg319-Phe541(R346S, N394S, Y449N, E484K, F490S, N501Y)) of SARS-COV-2(2019-nCoV) Spike RBD(B.1.640.2/IHU)-His (Accession #QHD43416.1) fused with His tag at the C-terminus.

Activity

Immobilized SARS-Cov-2 Spike RBD(B.1.640.2/IHU), His Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC_{50} of 41.3 ng/mL determined by ELISA.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

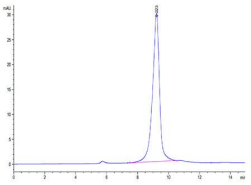
Store at -20℃

Operational Notes

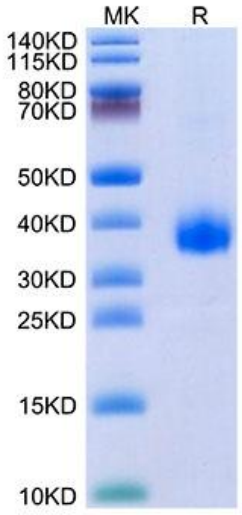
For your safety and health, please wear a lab coat and disposable gloves for handling.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

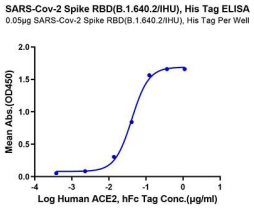
Validation Data



The purity of SARS-Cov-2 Spike RBD (B.1.640.2/IHU) is greater than 95% as determined by SEC-HPLC.



Recombinant SARS-CoV-2 Spike RBD(B.1.640.2/IHU) Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized SARS-Cov-2 Spike RBD (B.1.640.2/IHU) , His Tag at 0.5μg/ml (100μl /well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC_{50} of 41.3ng/ml determined by ELISA.