Recombinant SARS-COV-2 Spike RBD (N501Y, K417N,E484K) Protein

Catalog No.: RP02321

Sequence Information

Species	Gene ID
SARS-COV-2	43740568

Swiss Prot	Tags
QHD43416.1	C-His

Synonyms
S protein RBD,Spike glycoprotein Receptor-binding domain,S glycoprotein RBD,Spike protein RBD

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
26.2 kDa	30-40 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.

Background

Basic Information

Description
Recombinant SARS-COV-2 Spike RBD (N501Y, K417N,E484K) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Arg319-Phe541(N501Y,K417N,E484K)) of SARS-COV-2 Spike RBD (N501Y, K417N,E484K) fused with His tag at the C-terminal.

Activity
Immobilized SARS-CoV-2 Spike RBD (N501Y,K417N,E484K) at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC_{50} of 0.48 μg/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℃

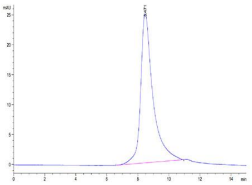
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

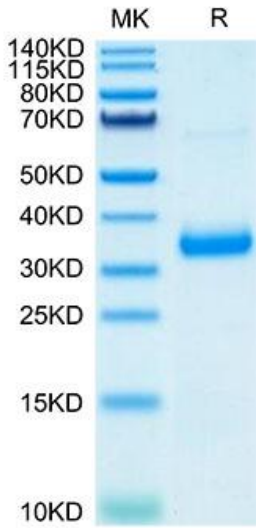
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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

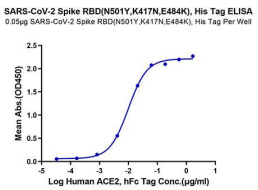
Validation Data



The purity of SARS-COV-2 Spike RBD (N501Y,K417N,E484K) is greater than 95% as determined by SEC-HPLC.



Recombinant SARS-COV-2 Spike RBD (N501Y,K417N,E484K) Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized SARS-COV-2 Spike RBD (N501Y,K417N,E484K) , His Tag at 0.5μg/ml (100ul/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC_{50} of 9.9ng/ml determined by ELISA.