

Active Recombinant SARS-CoV-2 Spike protein RBD (L452R, E484Q) Protein, HRP conjugated, His-tagged

Cat. No. S-1008S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant 2019-nCoV Spike protein S1 subunit, RBD (L452R, E484Q) (319-541) was expressed in CHO cells using a C-terminal his tag, and then conjugated to Horse peroxidase (HRP).

Species SARS-CoV-2

Source CHO

ProteinLength 319-541 a.a.

Description The receptor binding domain (RBD) of the SARS-CoV-2 spike glycoprotein that recognizes the host ACE2 receptor is a major determinant of viral entry and neutralization, and is the most divergent region. L452R mutation has been previously reported in the California variant (B.1.429). Mutation at E484 has been detected in the South African (B.1.351), Brazilian (P.1), and NY variants (B.1.526). Lineage B.1.617, also known as the Indian variant carries unique combination of both E484Q and L452R mutations in the RBD of the spike protein. Viruses harboring these individual mutations have reduced susceptibility to both monoclonal antibodies and convalescent plasma. As these new variants displace the first-wave virus, it is pivotal to evaluate their transmissibility, virulence and their possible tendency to escape antibody neutralization.

Bio-activity Binding ability measured in a functional ELISA. 2019-nCoV RBD (L452R, E484Q)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

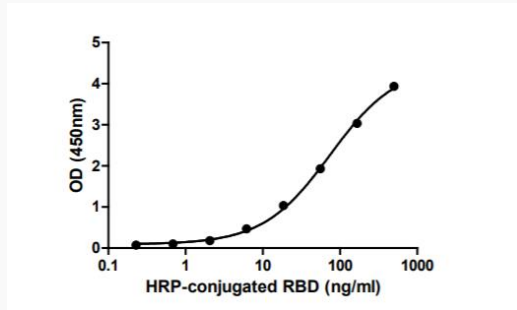
	binds to immobilized human ACE2(19-740) protein.
Purity	> 90%
Stability	One year at -20 centigrade from date of shipment.
Storage	Store product at -20 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 µg/µL
Storage Buffer	1xPBS, pH 7.4 and 50% glycerol.
Conjugation	HRP
GENE INFORMATION	
Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein
Gene ID	43740568
mRNA Refseq	MN908947
Protein Refseq	YP_009724390

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity



Binding ability measured in a functional ELISA. 2019-nCoV RBD (L452R, E484Q) binds to immobilized human ACE2(19-740) protein.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA