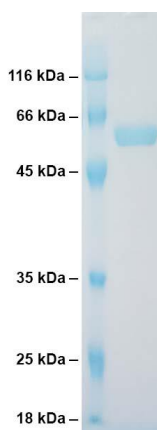


Receptor Binding Domain of SARS-CoV-2 Spike Protein

CATALOG NUMBER: SCV2-RBD-060P, 50 µg

Introduction	The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019. The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleoprotein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.
Applications	Western blot standard, antibody ELISA, antigen, etc.
Description	Recombinant SARS-CoV-2 spike RBD protein purified from 293 cell culture
Viral Protein	Spike RBD (amino acid 309-528) protein of human SARS-CoV-2 (GenBank No. MN908947) with a C-terminal hFc tag
Storage	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.
Concentration	1 µg/µl in PBS
Endotoxin Level	<0.01 EU per 1 µg of the protein by LAL test
Purity	≥ 95% (by SDS PAGE)



SDS-PAGE: purified recombinant spike RBD protein (aa 309-528) of SARS-CoV-2

Spike RBD (aa 309-528) Protein (SARS-CoV-2) SEQ:

KG IYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRRKRISNCVADYSVLYNSASFSTFKCYGVSP TKLNDLCFTNVYADSFVIRGDEV R
 QIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYNLYRLFRKSNLKPFFERDISTE IYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQP
 YRVVVLSEFELLHAPATVCGPK-hFc

Reference:

1. Zhang Y.Z., et al. A new coronavirus associated with human respiratory disease in China. Nature, 579(7798): 265-269, 2020.