

COVID 19 Spike 1 Receptor-Binding Domain (S1RBD) Coronavirus Active Protein | COVID-19 active protein

Receptor-Binding Domain (S1RBD)

CATALOG #
AAA60538

HOST
HEK293

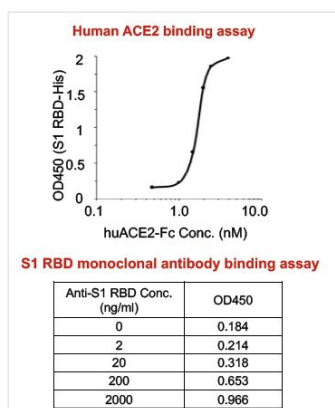
PRODUCT SYNONYMS

COVID 19 Spike 1 Receptor-Binding Domain (S1RBD) Coronavirus; Receptor-Binding Domain (S1RBD); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike 1 Receptor-Binding Domain (S1RBD); Receptor Binding Domain; COVID-19 active protein

PRODUCT SPECIFICATIONS

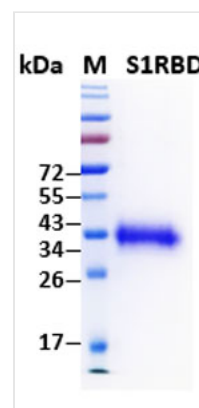
Host	HEK293
Purity/Purification	>95%
Form/Format	The protein is lyophilized in PBS, PH 7.4. Add appropriate volume of PBS into the tube and let the pellet dissolve completely. For example, adding 100 ul of PBS to make a final concentration of 1 mg/ml.
Tag Information	His at C-terminus
Endotoxin	<5 EU/mg, determined by the LAL method
Bioactivity & antigenicity	Strong binding ability with human ACE2 protein and binding capacity to a human anti-S1RBD monoclonal antibody (determined by ELISA).
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store at -80 degree C. Recommend to aliquot the protein into smaller quantities. Avoid repeated freeze-thaw cycles. Ships on dry ice.

IMAGES



Bioactivity

Bioactivity & antigenicity: Strong binding ability with human ACE2 protein and binding capacity to a human anti-S1 monoclonal antibody (determined by ELISA).



SDS-PAGE

Recombinant SARS-CoV-2 Spike Protein (RBD) consists of 234 amino acids (Arg319-Phe541) with C-terminal His-tag. It has an apparent molecular mass of ~25 kDa in SDS-PAGE. The concentration of protein was determined by BCA.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Recombinant SARS-CoV-2 Spike Protein (RBD) consists of 234 amino acids (Arg319-Phe541) with C-terminal His-tag. It has an apparent molecular mass of ~25 kDa in SDS-PAGE. The concentration of protein was determined by BCA. The SARS-CoV-2 glycosylated spike (S) protein highly exposed on the viral surface is a major determinant for virus binding and invasion into hose cells, which is a main target for neutralization antibody. The receptor-binding domain (RBD) in SARS-CoV-2 S protein is responsible for binding to human and bat angiotensin-converting enzyme 2 (ACE2) receptors.
References	Shajahan A, et al. (2020) Deducing the N- and O-glycosylation profile of the spike protein of novel coronavirus SARS-CoV-2. bioRxiv, https://doi.org/10.1101/2020.04.01.020966.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-covid-19-active-protein/covid-19-spike-1-receptor-binding-domain-s1rbd-coronavirus/60538>