

SARS-COV-2 (2019-NCOV) S PROTEIN RBD, HIS TAG

Cat.#: 11164

Product Name: SARS-CoV-2 (2019-nCoV) S Protein RBD

Size: 10 µg, 50 µg and 100 µg

Synonyms: S protein RBD; Spike glycoprotein Receptor-binding domain; S glycoprotein RBD; Spike protein RBD; COVID-19

Target: S protein RBD

UNIPROT ID: P0DTC2

Description: Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD with C-terminal 6xHis tag

Background: SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein is a type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which accounts for recognizing the cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell response.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 37-38 kDa after removal of the signal peptide.

Molecular Characterization: S protein RBD(Arg319-Phe541) 6×His tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

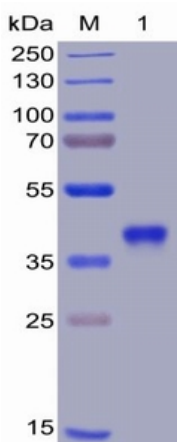


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, His Tag on SDS-PAGE under reducing condition.

S-RBD, His Tagged protein ELISA

0.2 µg S-RBD, His Tagged protein per well

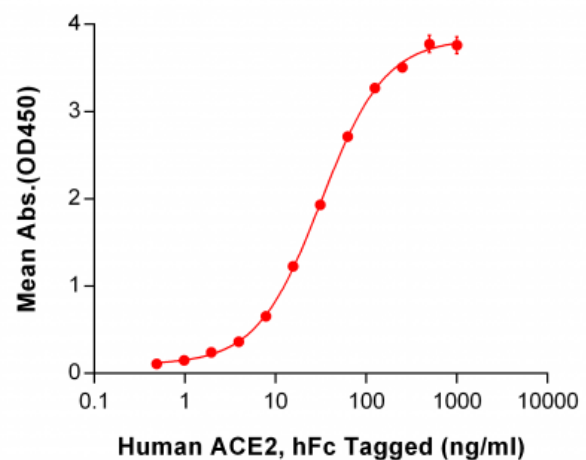


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) S protein RBD, His tagged protein (11164) can bind its native ligand Human ACE2, hFc tagged protein 11196 in a linear range of 1.96-31.72 ng/ml.



Product Description

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