

## 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.

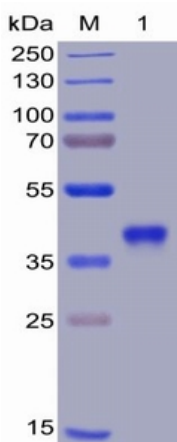


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, His Tag on SDS-PAGE under reducing condition.

### S-RBD, His Tagged protein ELISA

0.2 µg S-RBD, His Tagged protein per well

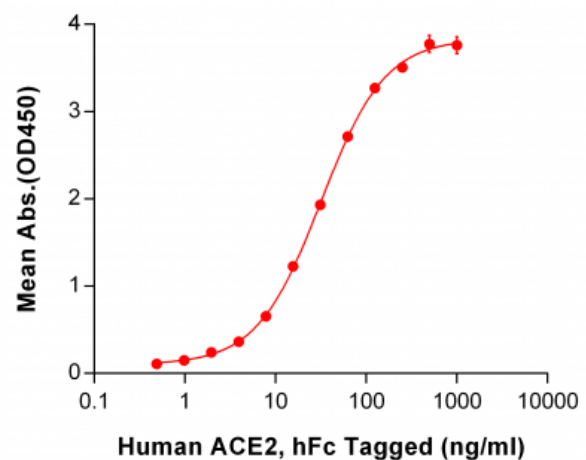


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) S protein RBD, His tagged protein (11164) can bind its native ligand Human ACE2, hFc tagged protein 11196 in a linear range of 1.96-31.72 ng/ml.



# Product Description

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