

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

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

货号: 11272

产品全名: SARS-CoV-2 (2019-NCoV) S Protein RBD

规格: 10/50/100 µg

基因符号 S protein RBD;Spike glycoprotein Receptor-binding domain;S glycoprotein RBD;Spike protein RBD;COVID-19

目标蛋白: S protein RBD UNIPROT ID: P0DTC2

描述: Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD with C-terminal mouse Fc and 6xHis tag

背景: 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.

物种/宿主: HEK293

分子量: The protein has a predicted molecular mass of 52.2 kDa after removal of the signal peptide.

分子特征: S protein RBD(Arg319-Phe541) mFc(Pro99-Lys330) 6×His tag

纯化: The purity of the protein is greater than 90% 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.

储存和运输: 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.



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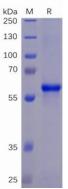


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His Tag on SDS-PAGE under reducing condition.

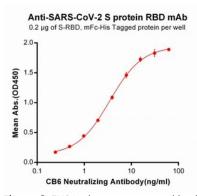


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) S-RBD, mFc-His tagged protein (11272) can bind Anti-SARS-CoV-2 Neutralizing antibody CB6 28020 in a linear range of 0.24-15.62 ng/ml.

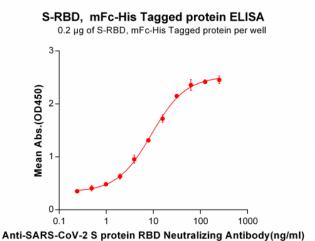


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His tagged protein (11272) can bind Anti-SARS-CoV-2 S protein RBD Neutralizing Antibody (A neutralizing monoclonal antibody clone currently under clinical investigation from collaboration company) in a linear range of 0.24-9.141 ng/ml.

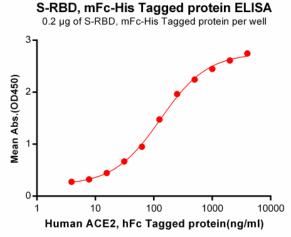


Figure 4. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) S-RBD, mFc-His tagged protein (11272) can bind Human ACE2, hFc Tagged protein 11196 in a linear range of 0.488-49.83 ng/ml.