

PRODUCT INFORMATION

S protein RBD **Target**

S protein RBD; Spike glycoprotein Receptor-**Synonyms** binding domain; S glycoprotein RBD; Spike protein

RBD;COVID-19

Recombinant SARS-CoV-2 (2019-nCoV) S protein **Description**

RBD with C-terminal mouse Fc and 6×His tag

Delivery In Stock **Uniprot ID** P0DTC2 **HEK293 Expression Host**

C-Mouse Fc and 6×His Tag Tag

Molecular S protein RBD(Arg319-Phe541) mFc(Pro99-

Characterization Lys330) 6×His tag

The protein has a predicted molecular mass of Molecular Weight 52.2 kDa after removal of the signal peptide.

The purity of the protein is greater than 90% as

Purity determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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 **Background**

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.

Usage Research use only

Conjugate Unconjugated





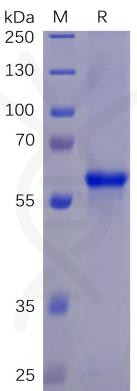
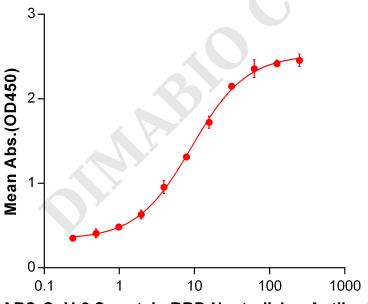


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His Tag on SDS-PAGE under reducing condition.

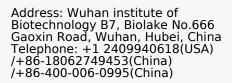
S-RBD, mFc-His Tagged protein ELISA

0.2 µg of S-RBD, mFc-His Tagged protein per well



Anti-SARS-CoV-2 S protein RBD Neutralizing Antibody(ng/ml)

Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) SARS-CoV-2 (2019-nCoV) S protein RBD, mFc-His tagged protein (PME100460) 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.



Email: info@dimabio.com Website: www.dimabio.com





Anti-SARS-CoV-2 S protein RBD mAb

0.2 µg of S-RBD, mFc-His Tagged protein per well

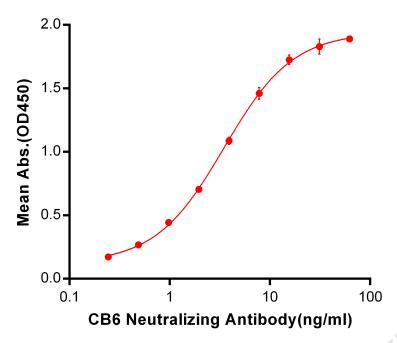


Figure 3. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) S-RBD, mFc-His tagged protein (PME100460) can bind Anti-SARS-CoV-2 Neutralizing antibody CB6 BME100011 in a linear range of 0.24-15.62 ng/ml.

S-RBD, mFc-His Tagged protein ELISA

0.2 µg of S-RBD, mFc-His Tagged protein per well

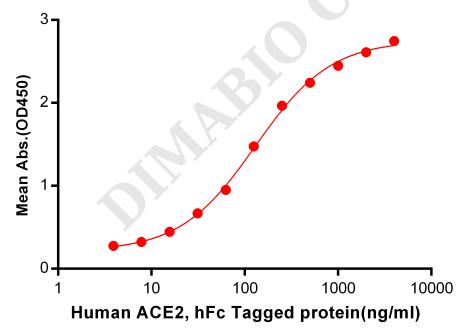


Figure 4. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) S-RBD, mFc-His tagged protein (PME100460) can bind Human ACE2, hFc Tagged protein PME100073 in a linear range of 0.488-49.83 ng/ml.

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