

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 protein with C-terminal human Fc tag

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

Tag C-Human Fc Tag

Molecular

Purity

S protein RBD(Arg319-Phe541) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 51.2 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as

determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & 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

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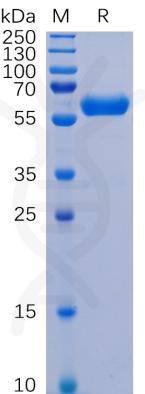


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD, hFc Tag on SDS-PAGE under reducing condition.

S-RBD, hFc Tagged protein ELISA

0.2 µg of S-RBD, hFc Tagged protein per well

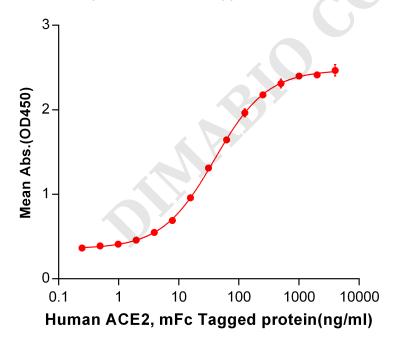


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) S-RBD, hFc tagged protein (PME100487) can bind Human ACE2, mFc Tagged protein PME100072 in a linear range of 0.976-39.35 ng/ml.





Human RBD, hFc Tagged protein ELISA

0.2 µg of ACE2, His Tagged protein per well

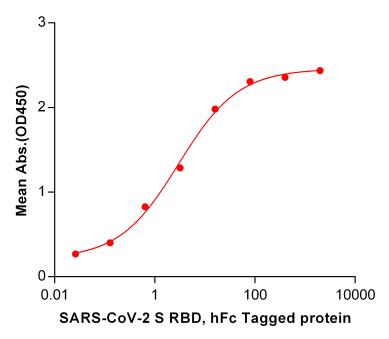


Figure 3. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human ACE2, His Tagged protein PME100490 can bind S-RBD, hFc tagged protein (PME100487) in a linear range of 0.128-80.0 ng/ml.

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