

PRODUCT INFORMATION

S protein RBD **Target**

Synonyms SARS-CoV-2 B.1.351 (Beta) Spike RBD Protein

Recombinant SARS-CoV-2 S protein RBD(K417N, E484K,N501Y) protein with C-terminal human Fc Description

tag

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

Tag C-Human Fc Tag

Molecular S protein RBD(K417N, E484K,N501Y)(Arg319-

Characterization Phe541) hFc(Glu99-Ala330)

> The protein has a predicted molecular mass of 51.3 kDa after removal of the signal peptide. The

Molecular Weight apparent molecular mass of RBD(K417N

E484K,N501Y)-hFc is approximately 55-70 kDa

due to glycosylation.

The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue **Purity**

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & - 8% trehalose is added as protectants before Reconstitution

lyophilization. Please see Certificate of Analysis 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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

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

transmembranė 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

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response.

Usage Research use only

Conjugate Unconjugated

Background





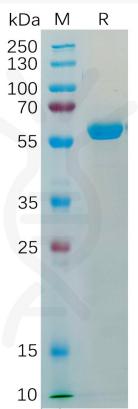


Figure 1. Human TM4SF1 Protein, hFc Tag on SDS-PAGE under reducing condition.

CoV-2 (Beta) S-RBD, hFc Tagged protein ELISA

0.2 μg of CoV-2 (Beta) S-RBD, hFc tagged protein per well

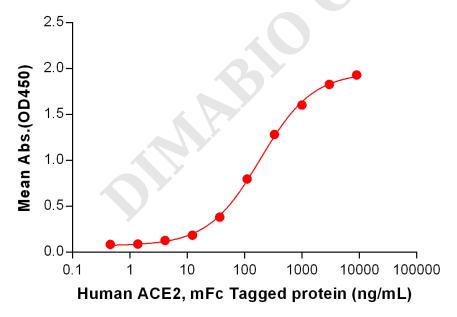


Figure 2. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) SARS-CoV-2 (Beta) S protein RBD, hFc Tag (PME100539) can bind Human ACE2 Protein, mFc Tag (PME100072) in a linear range of 12.346–3000 ng/mL.

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CoV-2 (Beta) S-RBD, hFc Tagged protein ELISA

0.2 μg of CoV-2 (Beta) S-RBD, hFc tagged protein per well

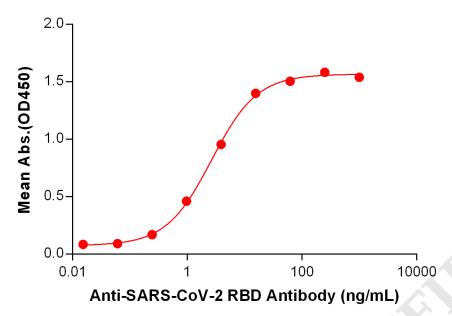


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) SARS-CoV-2 (Beta) S protein RBD, hFc Tag (PME100539) can bind Anti-SARS-CoV-2 RBD antibody (DM55), Rabbit mAb (DME100055) in a linear range of 0.244–15.625 ng/mL.

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