

## **PRODUCT INFORMATION**

S protein RBD **Target** 

**Synonyms** SARS-CoV-2 B.1.617.2 (Delta) Spike RBD Protein

Recombinant SARS-CoV-2 RBD(L452R,T478K) **Description** 

protein with C-terminal human Fc tag

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

Tag C-Human Fc Tag

Molecular S protein RBD(L452Rand T487K)(Arg319-Phe541)

Characterization hFc(Glu99-Ala330)

The protein has a predicted molecular mass of 51.2 kDa after removal of the signal peptide. The apparent molecular mass of RBD (L452Rand **Molecular Weight** 

T487K)-hFc is approximately 55-70 kDa due to

glycosylation.

The purity of the protein is greater than 95% as Purity determined by SDS-PAGE and Coomassie blue

staining.

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

**Background** 

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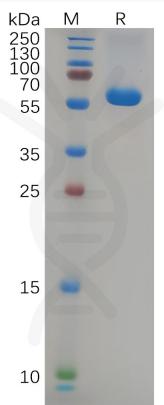


Figure 1. SARS-CoV-2 (2019-nCoV) S protein RBD(L452R & T487K), hFc Tag on SDS-PAGE under reducing condition.

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

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

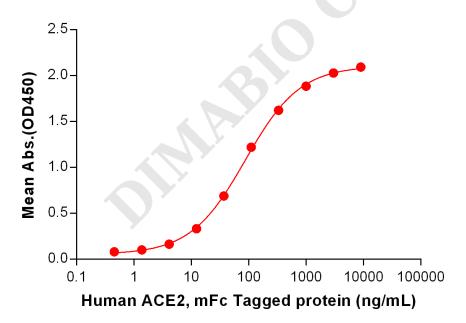


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) SARS-CoV-2 (Delta) S protein RBD , hFc Tag (PME100658) can bind Human ACE2 Protein, mFc Tag PME100072 in a linear range of 4.115–3000 ng/mL.

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

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

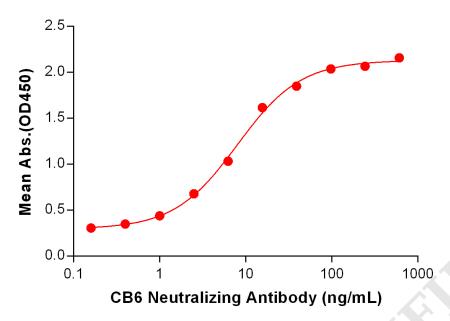


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) SARS-CoV-2 (Delta) S protein RBD , hFc Tag (PME100658) can bind Anti-SARS-CoV-2 (CB6 biosimilar) mAb BME100011 in a linear range of 1.00–97.66 ng/mL.

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

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

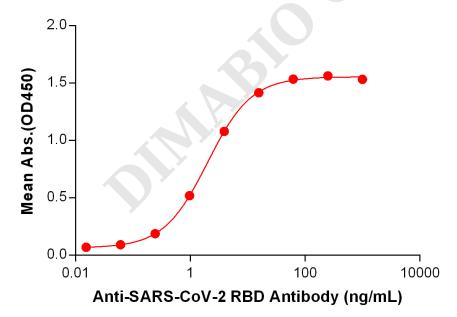


Figure 4. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) SARS-CoV-2 (Delta) S protein RBD , hFc Tag (PME100658) can bind Anti-SARS-CoV-2 RBD antibody (DM55), Rabbit mAb DME100055 in a linear range of 0.244–15.625 ng/mL.

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