Cat. No. DME100054



PRODUCT INFORMATION

Clone ID **DM54**

Target S protein RBD SARS-CoV-2 RBD **Synonyms**

Host Species Rabbit

Anti-SARS-CoV-2 RBD antibody(DM54); Rabbit Description mAb

Delivery In Stock **Uniprot ID** P0DTC2 Rabbit IgG IgG type Clonality Monoclonal Reactivity SARS-CoV-2

Applications ELISA; Flow Cyt

Recommended

Storage & Shipping

Background

ELISA 1:5000-10000; Flow Cyt 1:100 **Dilutions**

Purified from cell culture supernatant by affinity **Purification**

chromatography

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).

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

> All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or

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

DIMA Disclaimer reverse engineering attempt is prohibited. We are

actively scrutinizing all patent application to

ensure no IP infringement.



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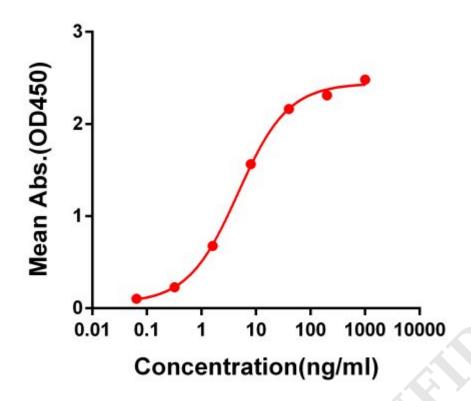


Figure 1. Elisa plate pre-coated by 2 μg/ml (100μl/well) SARS-CoV-2 RBD protein can bind Rabbit Anti-SARS-CoV-2 RBD monoclonal antibody (clone:DM54) in a linear range of 0.1-100 ng/ml.

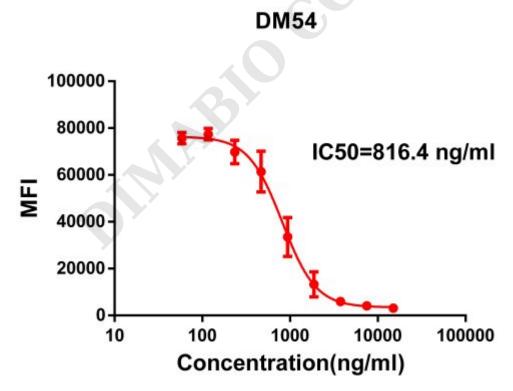


Figure 2. Competition flow cytometry assay demonstrating Rabbit anti-RBD monoclonal antibody (**clone: DM54**) blockade of SARS-CoV-2 (COVID-19) S protein RBD ($1\mu g/ml$, [getskuurl sku="PME100497"]) binding to Expi 293 cell line transfected with human ACE2. IC50=816.4ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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