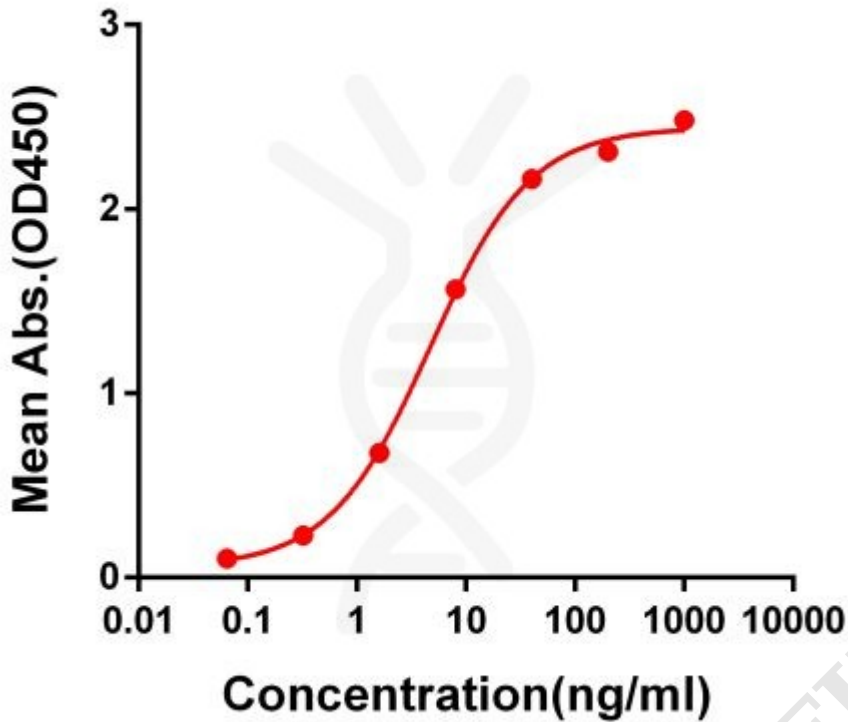


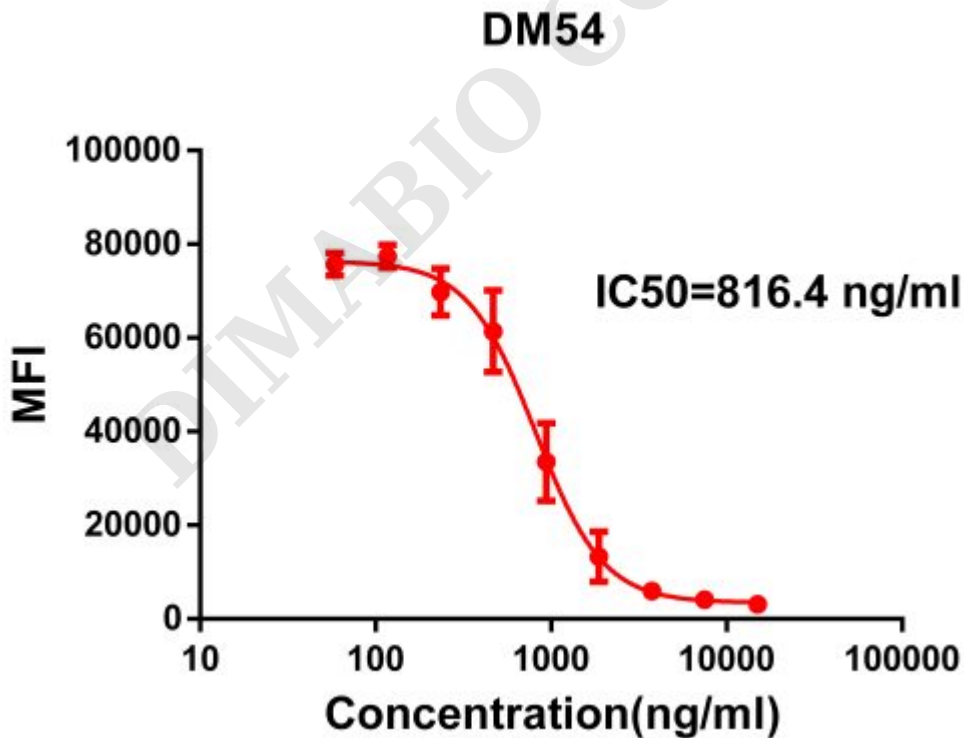
**PRODUCT INFORMATION**

<b>Clone ID</b>	DM54
<b>Target</b>	S protein RBD
<b>Synonyms</b>	SARS-CoV-2 RBD
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-SARS-CoV-2 RBD antibody(DM54); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P0DTC2
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	SARS-CoV-2
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated





**Figure 1.** Elisa plate pre-coated by 2  $\mu\text{g/ml}$  (100 $\mu\text{l/well}$ ) 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 $\mu\text{g/ml}$ , [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.

