PRODUCT INFORMATION

Clone ID	DM35
Target	S protein RBD
Synonyms	SARS-CoV-2 RBD
Host Species	Rabbit
Description	Anti-SARS-CoV-2 RBD antibody(DM35); Rabbit mAb
Delivery	In Stock
Uniprot ID	P0DTC2
IgG type	Rabbit IgG
Clonality	Monoclonal
Reactivity	SARS-CoV-2
Applications	ELISA; Flow Cyt
Recommended Dilutions	ELISA 1:5000-10000; Flow Cyt 1:100
Purification	Purified from cell culture supernatant by affinity chromatography
Formulation & Reconstitution	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.
Storage & Shipping	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.
Background	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

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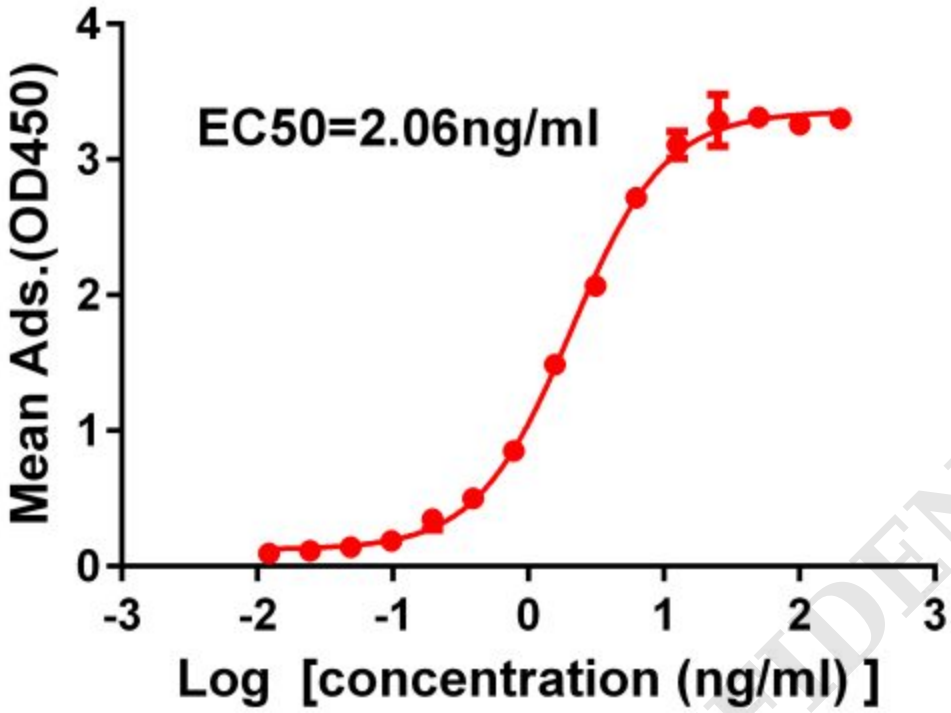

Figure 1. Elisa plate pre-coated by 2 μg/ml (100μl/well) SARS-CoV-2 RBD protein can bind Rabbit Anti-SARS-CoV-2 RBD monoclonal antibody (**clone:DM35**) in a linear range of 0.19-200 ng/ml.

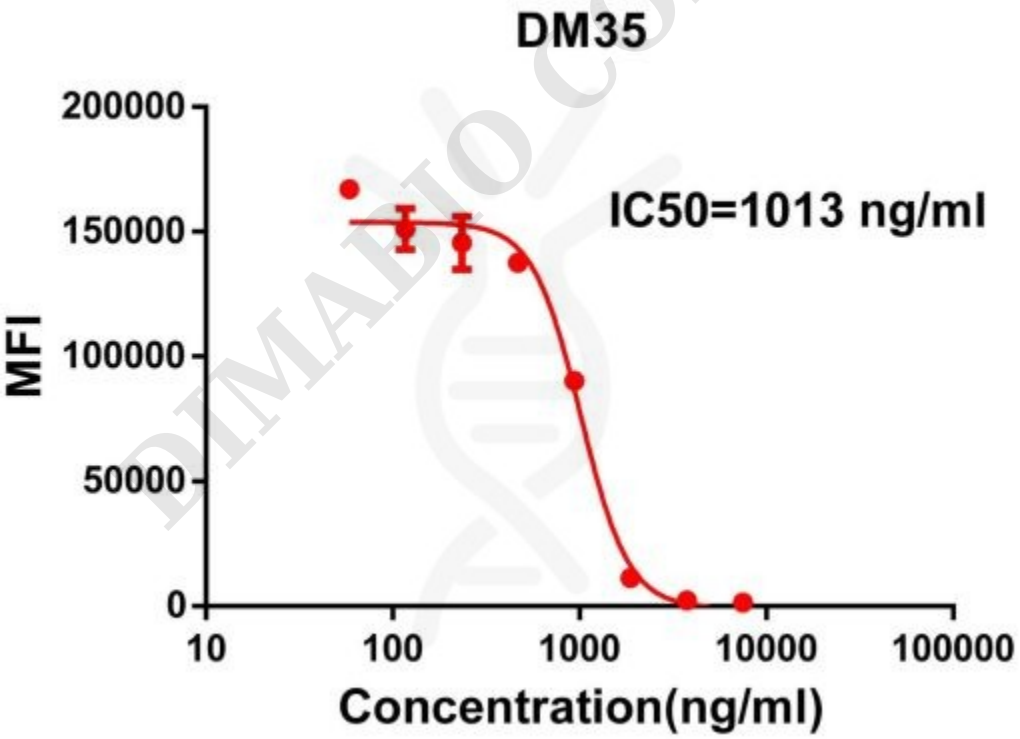

Figure 2. Competition flow cytometry assay demonstrating Rabbit anti-RBD monoclonal antibody (**clone: DM35**) blockade of SARS-CoV-2 (COVID-19) S protein RBD (1μg/ml, [getskuurl sku="PME100497"]) binding to Expi 293 cell line transfected with human ACE2. IC50=1013ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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