PRODUCT INFORMATION

Clone ID	DM55
Target	S protein RBD
Synonyms	SARS-CoV-2 RBD
Host Species	Rabbit
Description	Anti-SARS-CoV-2 RBD antibody(DM55); 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
DIMA Disclaimer	All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement.

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China
Telephone: +1 2409940618(USA)
/+86-18062749453(China)
/+86-400-006-0995(China)

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

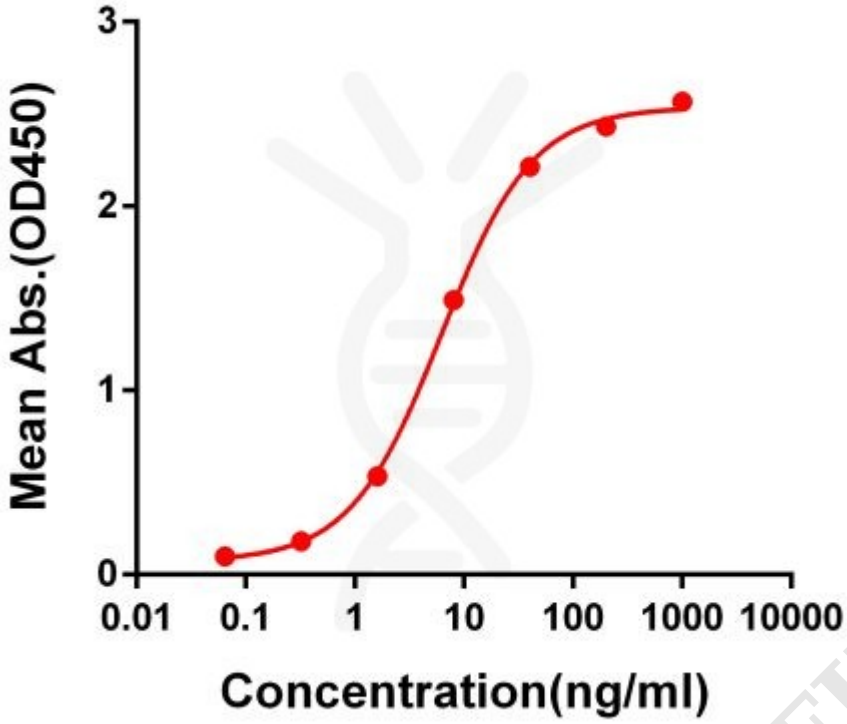

Figure 1. Elisa plate pre-coated by 2 μg/ml (100μl/well) SARS-CoV-2 RBD protein can bind Rabbit Anti-SARS-CoV-2 RBD monoclonal antibody (**clone:DM55**) in a linear range of 0.1-100 ng/ml.

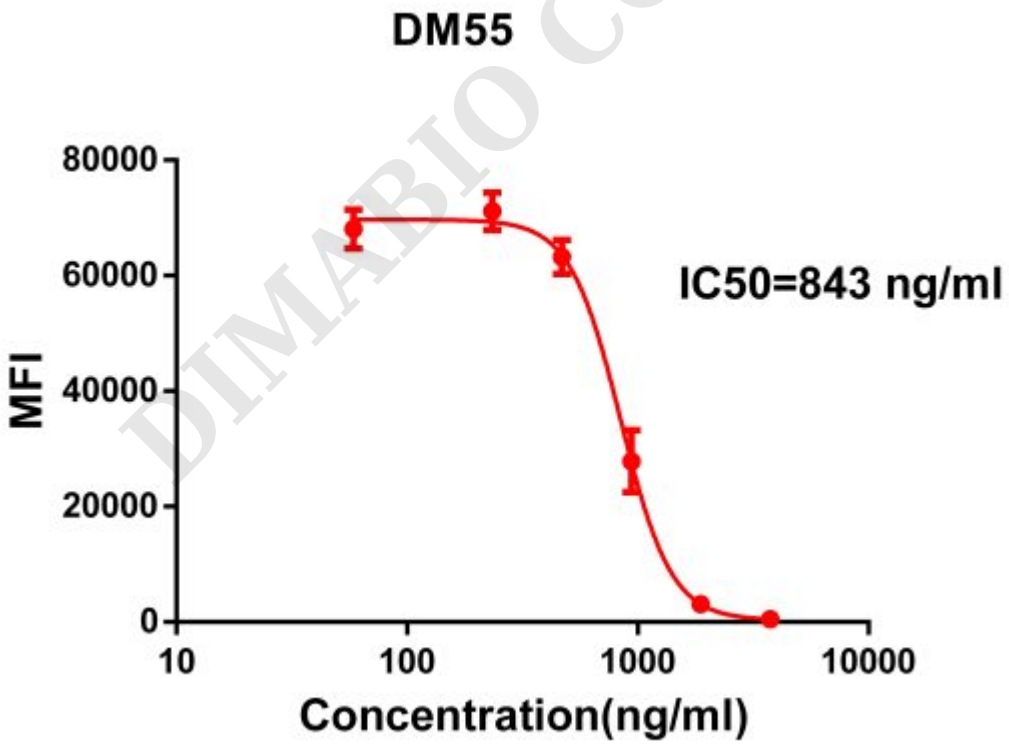

Figure 2. Competition flow cytometry assay demonstrating Rabbit anti-RBD monoclonal antibody (**clone: DM55**) blockade of SARS-CoV-2 (COVID-19) S protein RBD (1μg/ml, [getskuurl sku="PME100497"]) binding to HEK293 cell line transfected with human ACE2. IC50=816.4ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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