9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

12-9409: Anti-SARS-CoV-2 RBD antibody(DM55), Rabbit mAb

Clonality :	Monoclonal
Clone Name :	DM55
Application :	ELISA,FACS
Alternative Name :	SARS-CoV-2 RBD
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD (Arg 319-Phe541) produced by using human HEK293 cells

Description

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.

Product Info

Amount :	100 µg
Purification :	Purified from cell culture supernatant by affinity chromatography
Content :	Preservative: 0.1% Procline 300 Constituents: 50% Glycerol; PBS, pH 7.4; 0.1% BSA Not Sterile
Storage condition :	Store at -20°C for 12 months (Avoid repeated freezing and thawing)

Application Note

Recommended Dilutions ELISA 1/5000-10000;FACS 1/100

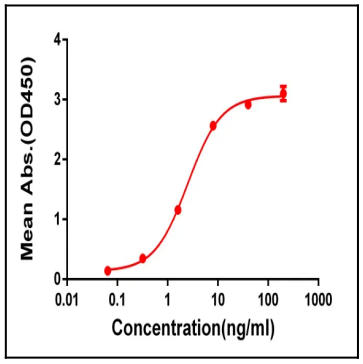


Figure 1. Elisa plate pre-coated by 2 µg/ml (100µl/well) SARS-CoV-2 RBD protein can bind Rabbit Anti-SARS-CoV-2 RBD monoclonal antibody (clone:DM55) in a linear range of 0.1-100 ng/ml.

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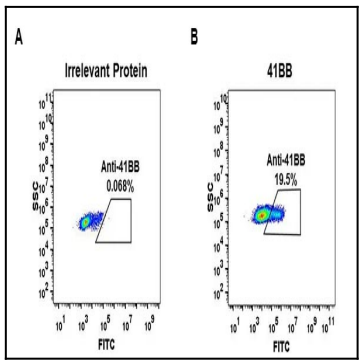


Figure 2. Competition FACS assay demonstrating Rabbit anti-RBD monoclonal antibody (clone: DM55) blockade of SARS-CoV-2 (COVID-19) S protein RBD (1µg/ml,) binding to Expi 293 cell line transfected with human ACE2. IC50=816.4ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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