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Product datasheet for TA355178

S Protein Rabbit Monoclonal Antibody [Clone ID: DM27]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DM27
Applications:	ELISA, FC
Recommended Dilution:	Flow Cyt 1/100
Reactivity:	SARS-CoV-2
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant SARS-CoV-2 (2019-nCoV) S protein RBD (Arg 319-Phe541)(TP724025) produced by using human HEK293 cells
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization. Preservative: 0.1% Procline 300
Reconstitution Method:	Reconstitute with deionized water
Purification:	Purified from cell culture supernatant by affinity chromatography
Conjugation:	Unconjugated
Storage:	Store at -20°C for 12 months (Avoid repeated freezing and thawing)
Stability:	12 months from date of despatch
Predicted Protein Size:	141kDa
Gene Name:	S Protein
Database Link:	Entrez Gene 43740568 SARS-CoV-2
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.

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Product images:

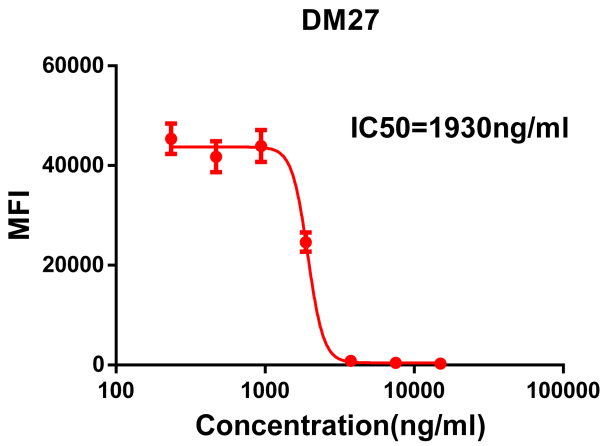

Figure 1. Competition flow cytometry assay demonstrating Rabbit anti-RBD monoclonal antibody (clone: DM27) blockade of SARS-CoV-2 (COVID-19) S protein RBD (1µg/ml, [TP724025]) binding to Expi 293 cell line transfected with human ACE2. IC50=1930ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.

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