

## 12-9408: Anti-SARS-CoV-2 RBD antibody(DM54), Rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	DM54
<b>Application :</b>	ELISA,FACS
<b>Alternative Name :</b>	SARS-CoV-2 RBD
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	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

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

### Application Note

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

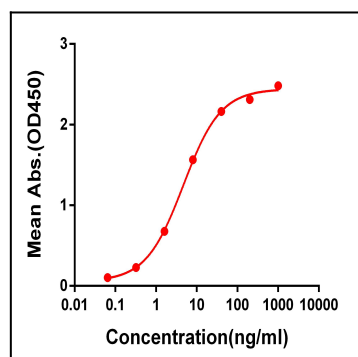


Figure 1. Elisa plate pre-coated by 2 µg/ml (100µl/well) SARS-CoV-2 RBD protein can bind Rabbit Anti-SARS-CoV-2 RBD monoclonal antibody (clone:DM54) in a linear range of 0.1-100 ng/ml.

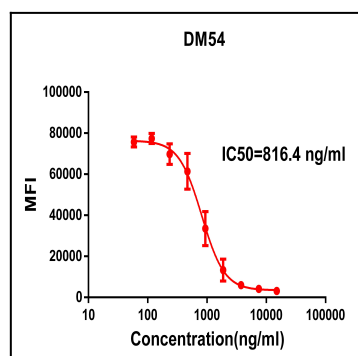


Figure 2. Competition FACS assay demonstrating Rabbit anti-RBD monoclonal antibody (clone: DM54) blockade of SARS-CoV-2 (COVID-19) S protein RBD (1 $\mu$ g/ml, ) binding to Expi 293 cell line transfected with human ACE2. IC50=816.4ng/ml. The Y-axis represents the geometric mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.