

SARS-CoV-2 Spike Protein (RBD) Recombinant Human Monoclonal Antibody (P06DHu)

Product Details	
Size	100 µg
Species Reactivity	Virus
Host/Isotype	Human / IgG1, lambda
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	P06DHu
Conjugate	Unconjugated
Immunogen	This antibody was developed using computationally derived variants of SARS-CoV antibody structures and is shown to bind Spike Protein S1 subunit (RBD) of SARS CoV2
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2866481

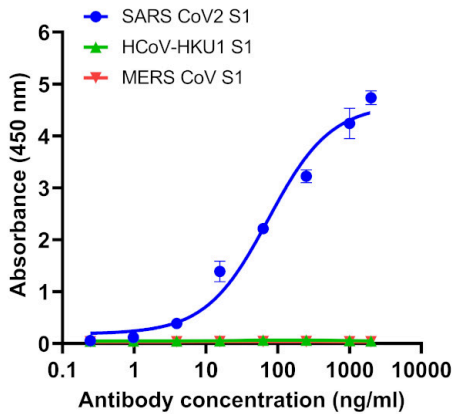
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-
Flow Cytometry (Flow)	0.06 µg/test	-
ELISA (ELISA)	0.2-2,000 ng/mL	-
Neutralization (Neu)	0.1 - 10 µg/mL	-
Luminex (LUM)	0.5 mg/mL	-

Product Specific Information

This antibody recognizes the RBD domain of SARS CoV2 Spike protein.

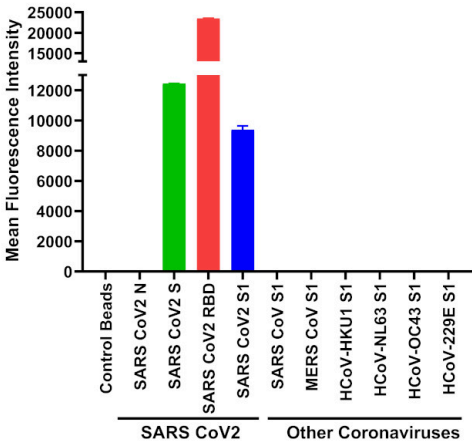
It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

This antibody is not recommended for the Western blot application.



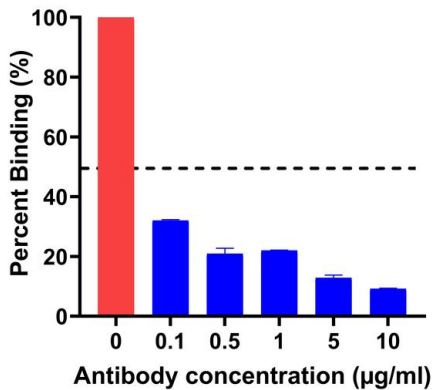
SARS-CoV-2 Spike Protein (RBD) Antibody (703973) in ELISA

Specificity of Anti-SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody (Product # 703973) was analyzed by Indirect ELISA. The assay was performed by coating recombinant Spike Protein S1 subunits from SARS CoV2, HCoV-HKU1 and MERS CoV at a concentration of 1 µg/mL onto a plate. The coated protein was incubated with Anti-SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody at a concentration of 0.2, 0.97, 3.9, 15.6, 62.5, 250, 1000 and 2000 ng/mL and was detected using Goat anti-Human IgG (Gamma chain) Cross-Adsorbed Secondary Antibody, HRP (Product # 62-8420, 1:500 dilution). The plate was developed using TMB stabilized chromogen solution (Product # SB02). The plate was read at 450 nm with Thermo Scientific™ Varioskan™ LUX multimode microplate reader (Product # VLBLATD2). No cross-reactivity was observed with Anti-SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody (Product # 703973) against HCoV-HKU1 or MERS CoV recombinant Spike Protein S1 subunits.



SARS-CoV-2 Spike Protein (RBD) Antibody (703973)

Antibody specificity was demonstrated by Luminex bead based Immunoassay showing differential detection of target antigen across a panel of related viral proteins. Relative detection of spike protein S1 subunit was observed with SARS CoV2 but not with S1 proteins from other members of Coronavirus family using SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody (Product # 703973). {RE}



SARS-CoV-2 Spike Protein (RBD) Antibody (703973)

ELISA based SARS-CoV-2 Inhibitor Screening Assay shows that the binding of SARS CoV2 Spike Protein RBD to Human ACE2 was inhibited by Anti-SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody (Product # 703973). Recombinant SARS CoV2 Spike Protein RBD was coated at a concentration of 0.5 µg/mL onto a plate. This was pre-incubated with Anti-SARS CoV2 Spike Protein RBD Recombinant Human Monoclonal Antibody at a concentration range of 0.1 to 10 µg/mL and binding signal of biotinylated Human ACE2 was detected using Streptavidin-HRP conjugate. The plate was developed using TMB stabilized chromogen solution (Product # SB02) and read at 450 nm with Thermo Scientific™ Varioskan™ LUX multimode microplate reader (Product # VLBLATD2). X axis represents antibody concentrations and Y axis represents percent binding signal of Human ACE2 to SARS CoV2 Spike Protein RBD. Dotted line represent 50% inhibition. {Neu}

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