MAV102 Recombinant Human anti-COVID-19/SARS-CoV-2 S1 RBD Monoclonal Antibody
DATA SHEET

Catalog Number	MAV102
Product Name	Recombinant Human anti-COVID-19/SARS-CoV-2 S1 RBD Monoclonal Antibody
Clonity	Recombinant mAb
Alias	SARS-CoV-2 RBD antibody, 2019-nCoV, Coronavirus
Size	100ul,500ul,1ml
Concentration	1mg/ml
Clone Number	7H6
Isotype	IgG1
Species	COVID-19
Host	Human
Applications	ELISA, Colloidal Gold, POCT, Netrolization, Standard Positive Control
Endotoxin	<0.1EU/ug determided by LAL method.
Biological Activity	IC50 = 32 ng/mL using using ELISA method
Buffer	0.01M PBS, pH 7.4
Cross-Reactivity	React with SARS-CoV-2(COVID-19) S1-RBD protein. Do not react with other SARS-CoV-2 subunits.
Background	A novel severe acute respiratory syndrome (SARS)-like coronavirus (SARS-CoV-2) recently emerged and is rapidly spreading in humans, causing COVID-19. A key to tackling this pandemic is to understand the receptor recognition mechanism of the virus, which regulates its infectivity, pathogenesis and host range. SARS-CoV-2 and SARS-CoV recognize the same receptor—angiotensin-converting enzyme 2 (ACE2)—in humans. Researchers determined the crystal structure of the receptor-binding domain (RBD) of the spike protein of SARS-CoV-2 (engineered to facilitate crystallization) in complex with ACE2. In comparison with the SARS-CoV RBD, an ACE2-binding ridge in SARS-CoV-2 RBD has a more compact conformation; moreover, several residue changes in the SARS-CoV-2 RBD stabilize two virus-binding hotspots at the RBD–ACE2 interface. These structural features of SARS-CoV-2 RBD increase its ACE2-binding affinity. Additionally, we show that RaTG13, a bat coronavirus that is closely related to SARS-CoV-2, also uses human ACE2 as its receptor.
Storage	This product can be stored at 2℃-8℃ for one month. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Avoid repeated freeze-thaw cycles.
Shipping Condition	Shipped on ice packs.
Note	This product is used for research use only. Not for human or diagnostic use.

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