



## MAV101 Recombinant Human anti-COVID-19/SARS-CoV-2 S1 RBD Monoclonal Antibody DATA SHEET

<b>Catalog Number</b>	MAV101
<b>Product Name</b>	Recombinant Human anti-COVID-19/SARS-CoV-2 S1 RBD Monoclonal Antibody
<b>Clonity</b>	Recombinant mAb
<b>Alias</b>	SARS-CoV-2 RBD antibody, 2019-nCoV, Coronavirus
<b>Size</b>	100ul,500ul,1ml
<b>Concentration</b>	1mg/ml
<b>Clone Number</b>	1G6
<b>Isotype</b>	IgG1
<b>Species</b>	COVID-19
<b>Host</b>	Human
<b>Applications</b>	ELISA, Colloidal Gold, POCT, Netrolization, Standard Positive Control
<b>Endotoxin</b>	<0.1EU/ug determided by LAL method.
<b>Biological Activity</b>	IC50 = 2.8 ng/mL using SARS-CoV-2 Inhibitor screening Kit
<b>Buffer</b>	0.01M PBS, pH 7.4
<b>Cross-Reactivity</b>	React with SARS-CoV-2(COVID-19) S1-RBD protein. Do not react with other SARS-CoV-2 subunits.
<b>Background</b>	<p>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.</p>
<b>Storage</b>	This product can be stored at 2°C–8°C for one month. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Avoid repeated freeze-thaw cycles.
<b>Shipping Condition</b>	Shipped on ice packs.
<b>Note</b>	This product is used for research use only. Not for human or diagnostic use.

**For Research Use Only!**