



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

产品编号	MAV101
产品名称	Recombinant Human anti-COVID-19/SARS-CoV-2 RBD Monoclonal Antibody
克隆性	Recombinant mAb
抗体亚型	IgG1
克隆号	1G6
产品别名	SARS-CoV-2 RBD antibody, 2019-nCoV, Coronavirus
规格	100ul, 500ul
浓度	1mg/ml
物种	COVID-19
宿主	Human
免疫原	Native virus
产品应用	ELISA, Colloidal Gold, POCT, Neutralization, Standard Positive Control
生物活性	IC50 = 2.8 ng/mL using SARS-CoV-2 Inhibitor screening Kit
缓冲体系	0.01M PBS, pH 7.4
产品背景	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.
保存条件	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.
运输条件	Shipped on ice packs.
备注	This product is used for research use only. Not for human or diagnostic use.

For Research Use Only!