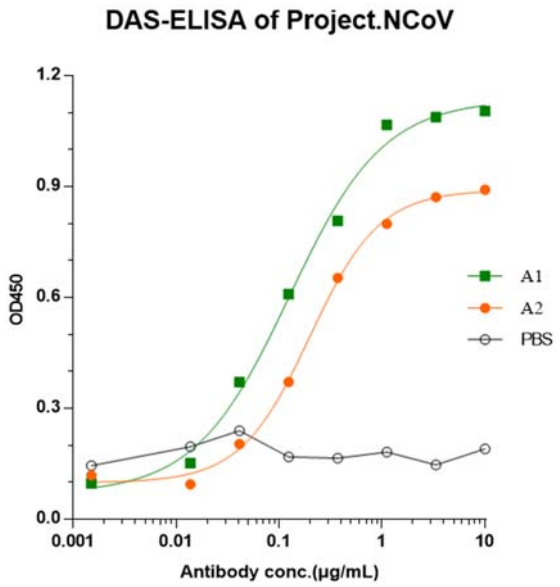
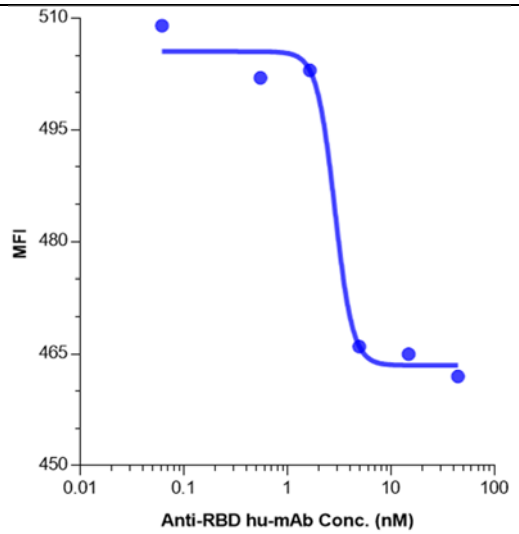
Datasheet

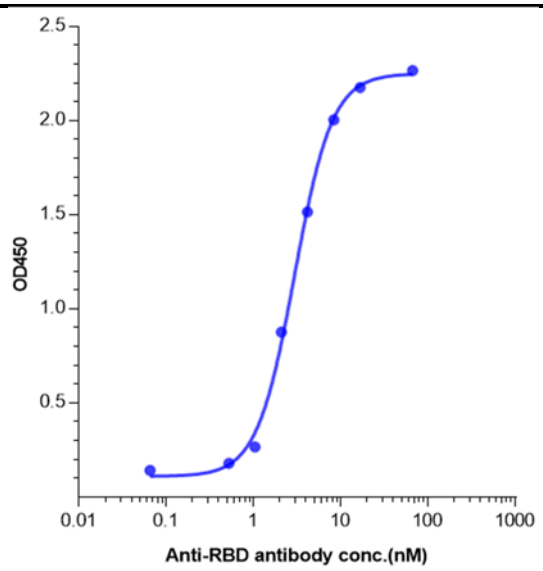
V1.0

Product name: Anti Spike Protein (S-protein, SARS-CoV-2) RBD human monoclonal antibody

Cat.No	nCoV-mA001, mA003, mA004	**Quantity**	50μg/100μg/200μg/500μg
Antibody information			
Antibody host	human	**Buffer**	PBS (pH=7.2)
Antibody source	Human naïve antibody library	**Purity**	>98%
Expression host	ExpiCHO-S	**Endotoxin**	<10EU/mg
Antigen information These antibodies recognize different epitopes on the Receptor Binding Domain (RBD). mA001 and mA003 will form an antibody pair which can be used for Sandwich ELISA; mA003 and mA004 will form an antibody pair which can be used for Sandwich ELISA.			
Antigen name	Receptor Binding Domain (RBD) on spike protein (S-protein)	**Antigen source**	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
Application	Neutralization, cell assay, ELISA, FCS. **Except** testing denatured antigen.		
Storage	2 – 8°C for up to 1 weeks. -20°C or even lower temperature for long term preservation. Avoid repeated freeze thaw cycles.		
Biosafety	This product is purified reconstructed protein with its original bioactivity. It has been filtered through 0.22μm filter membrane and does not contain any pathogenic bacteria or virus.		
Important notice	This product is for research use only. Please operate it under research lab protocol.		

Part of assay data

DAS-ELISA assay	**FCS**
 mA003 was coated on 96-well ELISA plate. S1 subunit was added into the well. Then mA001 or mA004 were added into the well to form the Sandwich structure, separately. Signal was read at OD450. Result show that 2 antibody pair can be formed: mA001 and mA003; mA003 and mA004.	 ACE2 expressing Vero E6 cell line was constructed ahead of the test. Cells are suspended in PBS and S-protein-RBD was added to the buffer. An increasing series of RBD antibody was added into the reaction system to block the activity of RBD. S1 antibody was used to detect ACE binding RBD in FACS. Conclusion: RBD antibody block the RBD binding activity and S1 antibody is able to detect binding S-protein.
Binding assay	



Anti S-protein-RBD antibody binding with S-protein-RBD, tested by ELISA assay.