

Product Datasheet

SARS-CoV-2 RBD Potent Neutralizing Antibody, monoclonal, Chimeric (orb1274220)

Catalog Number	orb1274220
Category	Antibodies
Description	SARS-CoV-2 RBD Potent Neutralizing Antibody, monoclonal, Chimeric
Target	S
Clonality	Recombinant
Isotype	Human IgG1/kappa
Conjugation	Unconjugated
Reactivity	Mouse
Form/Appearance	Lyophilized
Concentration	batch dependent
Buffer/Preservatives	Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4 . Normally trehalose is added as protectant before lyophilization.
Purification	>95% as determined by SDS-PAGE.
Immunogen	Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM128) is a chimeric monoclonal antibody combining the constant domains of the human IgG1 molecule with mouse variable regions. Pseudovirus assay shows that this antibody has potent neutralizing activity against pseudovirus bearing SARS-CoV-2 Spike protein.
UniProt ID	P0DTC2

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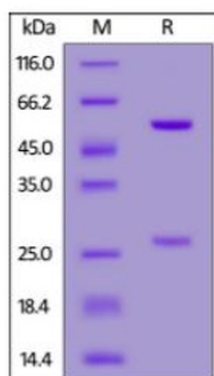
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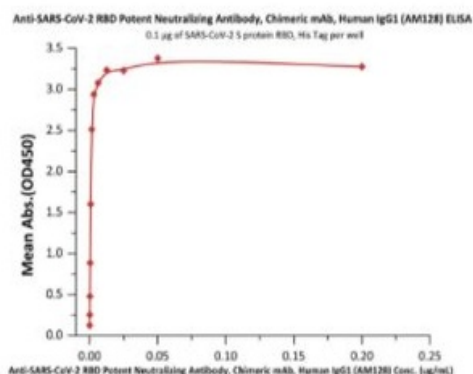
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Tested applications	ELISA, WB
Specificity	This product is a specific antibody against SARS-CoV-2 Spike protein RBD domain. No cross-reactivity is detected with Spike protein RBD domain of other coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Immobilized SARS-CoV-2 S protein RBD, His Tag at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM128) with a linear range of 0.05-3.13 ng/mL (QC tested).

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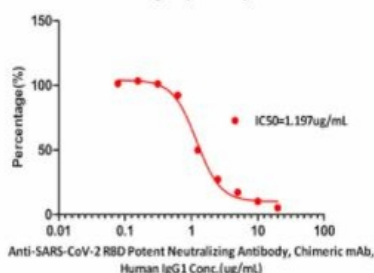
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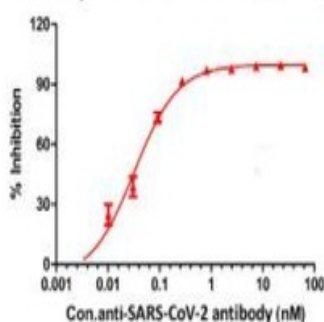
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Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM128)ELISA

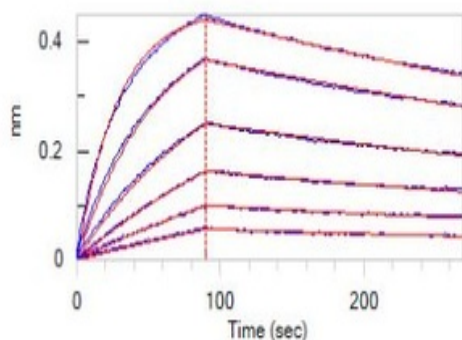


Serial dilutions of Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 was detected by SARS-CoV-2 Inhibitor screening Kit with a half maximal inhibitory concentration (IC50) of 1.197 ug/mL (Routinely tested).

Neutralization assay of anti-SARS-CoV-2 antibodies using pseudovirus



Serial dilutions of Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody was incubated with SARS-CoV-2 pseudotyped virus at 37C for 1 hour. Afterward, Huh-7 cells were added, followed by incubation at 37C for 24h. Chemiluminescence detection was performed and the virus neutralization titers (IC50) is 0.03255 nM using the Reed-Muench method.



Loaded Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 on AHC Biosensor, can bind SARS-CoV-2 S1 protein, His Tag with an affinity constant of 4.42 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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