

DATASHEET

COVID-19 S-hIgG1 Neutralizing Human Cells Monoclonal Antibody(C2475)

CAT. NO. AMA02087

KEY FEATURES

Target	COVID-19 S-hIgG1 Neutralizing	Source / Host	Human Cells
Reactivity	COVID-19	Clonality	Monoclonal
Applications	ELISA	Conjugation	Unconjugated
Form / Buffer	1 mg/ml. Human IgG1. Liquid in 0.01M Phosphate Buffered Saline, pH 7.4.	Storage	at-20°C

BACKGROUND

Attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. The major receptor is host ACE2 . When S2/S2' has been cleaved, binding to the receptor triggers direct fusion at the cell membrane . When S2/S2' has not been cleaved, binding to the receptor results in internalization of the virus by endocytosis using host TFRC and GRM2 and leading to fusion of the virion membrane with the host endosomal membrane . Alternatively, may use NRP1/NRP2 and integrin as entry receptors . The use of NRP1/NRP2 receptors may explain the tropism of the virus in human olfactory epithelial cells, which express these molecules at high levels but ACE2 at low levels . Uses also ASGR1 as an alternative receptor in an ACE2-independent manner .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

ELISA	Use at an assay dependent dilution.
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Human monoclonal neutralizing antibody to COVID-19 S protein
Specificity	Recognizes COVID-19 S Protein, COVID-19 S-RBD Protein and block ACE-2 receptor binding.
Antibody Type	Primary antibody
Purification	>95%, cultured in vitro under conditions free from animal derived components.
Form/Buffer	1 mg/ml. Human IgG1. Liquid in 0.01M Phosphate Buffered Saline, pH 7.4.
Alternative Names	Spike glycoprotein; S glycoprotein; E2; Peplomer protein
Gene Symbol	S
Entrez Gene	43740568(Human)
SwissProt	P0DTC2(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

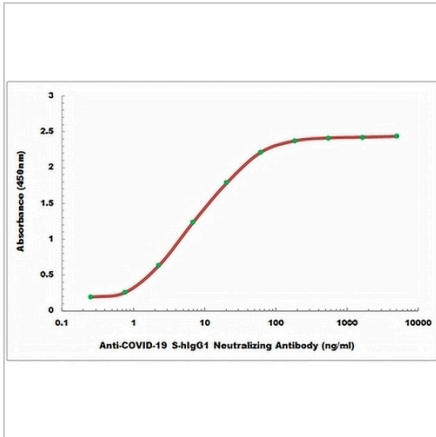
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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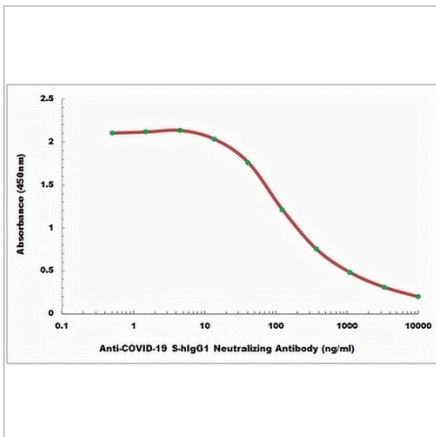
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DATA



Immobilized Recombinant COVID-19 S Protein RBD-SD1 at 5 ug/ml can bind Anti-COVID-19 S-hIgG1 Neutralizing Antibody, the EC50 is less than 4.8 ng/ml.



Anti-COVID-19 S-hIgG1 Neutralizing Antibody can block Recombinant Human ACE2 Protein and Recombinant COVID-19 S Protein RBD-SD1 interaction, the IC50 for this effect is 165 ng/ml.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.