

Mouse anti-SARS-COV2 COVID 19 Spike Coronavirus Monoclonal Antibody | anti-COVID-19 antibody

Anti-2019-nCoV Spike Neutralizing Antibody

CATALOG # AAA177010	HOST Mouse	REACTIVITY SARS-COV2	APPLICATIONS ELISA, Neutralization Assay
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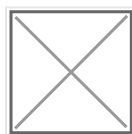
PRODUCT SYNONYMS

COVID 19 Spike Coronavirus; Monoclonal Antibody; Anti-2019-nCoV Spike Neutralizing Antibody; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; coronavirus spike; coronavirus s1; coronavirus s2; ncov s1; ncov s2; ncov spike; novel coronavirus spike; RBD; S1; s2; Spike RBD; cov spike; ncov RBD; Receptor Binding Domain; anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	SARS-COV2
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4A3
Form/Format	0.2 um filtered solution in PBS
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-COVID-19 antibody	ELISA, NTRL (Neutralization)
Immunogen	Recombinant 2019-nCoV S1 Protein (mFc Tag)
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Note	Centrifuge before opening to ensure complete recovery of vial contents.
Preparation and Storage	Ships on dry ice. Store at -20°C. Avoid freeze/thaw cycles.

IMAGES



Application Data

Anti-2019-nCoV Spike Neutralizing Antibody(4A3) can block Human ACE2 Protein (His Tag) and 2019-nCoV Spike Protein (RBD, mFc Tag) interaction, the IC50 for this effect is 81.5 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody

Description: Antibody recognizes 2019-nCoV S Protein/ 2019-nCoV S-RBD Protein and block ACE-2 receptor binding. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.

Background: Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/covid-19-spike-coronavirus-antibody-clone-4a3-neutralization-elisa/177010>