

COVID 19 Spike Coronavirus Recombinant Antibody | COVID-19 recombinant antibody

Anti-2019nCoV Spike Protein, Recombinant Human Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14259	Human	SARS-CoV spike protein	ELISA, Flow Cytometry, Functional Assay

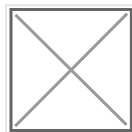
PRODUCT SYNONYMS

COVID 19 Spike Coronavirus; Monoclonal Recombinant Antibody; Anti-2019nCoV Spike Protein; Recombinant Human Antibody; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike Protein; Anti-SARS-CoV-2 Spike Protein Antibody; COVID-19 recombinant antibody

PRODUCT SPECIFICATIONS

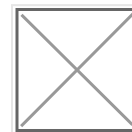
Host	Human
Reactivity	SARS-CoV spike protein
Clonality	Monoclonal
Isotype	IgG
Specificity	Recognizes the 2019-nCoV spike protein
Form/Format	PBS + 0.02% sodium azide.
Concentration	0.5 mg/mL (varies by lot)
Applicable Applications for COVID-19 recombinant antibody	ELISA, FCM/FACS (Flow Cytometry)
Application Notes	Ideal working dilutions for each application should be empirically determined by the investigator.
Preparation and Storage	Store at -20°C for 1 year from date of receipt. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Biological Activity

Binding of anti-2019nCoV spike protein antibody (AAA14259) to 2019nCoV RBD determined by ELISA.



FCM (Flow Cytometry)

FACS assay showed 2019-nCoV Spike protein RBD and 2019-nCoV Spike protein S1 can bind to ACE2 overexpressing cells (Panel A and B respectively). ACE2 overexpressing cells were stained with 2019-nCoV Spike protein RBD or S1, followed by anti-Spike protein antibody and fluorescence-conjugated secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant antibody

The severe acute respiratory syndrome related novel coronavirus SARS-CoV-2 has caused the pandemic of the respiratory diseases (COVID-19) around the world in 2020 (1). The spike glycoprotein (S) of coronavirus belongs to the type I transmembrane protein containing two subunits, S1 and S2 (2), which is also known to be the key component to bind with host cells through the interaction with angiotensin-converting enzyme 2 (ACE2) (3). A receptor binding domain (RBD) of S1 can recognize the cell surface receptor and the mutation of RBD could cause higher motility rate (3).

Product Categories/Family for COVID-19 recombinant antibody	Proteins ; COVID-19 Related Products
References	1. Zhou P, et al: A pneumonia outbreak associated with a new coronavirus of probable bat origin. Nature. 2020, 579:270-89. 2. Xiao X, et al: The SARS-CoV S glycoprotein. Cell Mol Life Sci. 2004, 61 (19-20): 2428-30. 3. Lan J, et al: Crystal structure of the 2019-nCov spike receptor-binding domain bound with the ACE2 receptor.

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-recombinant-antibody-flow-cytometry-elisa/14259>