

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

SARS-CoV-2 Spike RBD Nanobody, FITC conjugated

CATALOG # AAA243905	REACTIVITY Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)	APPLICATIONS ELISA
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PRODUCT SYNONYMS

COVID 19 Spike RBD Coronavirus; Monoclonal Recombinant Antibody; SARS-CoV-2 Spike RBD Nanobody; FITC conjugated; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike RBD; COVID-19 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Clonality	Monoclonal
Isotype	VHH fusion with human IgG1 Fc
Clone Number	A1
Purity/Purification	Affinity-chromatography
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH7.4
Applicable Applications for COVID-19 recombinant antibody	ELISA
Antibody Type	Recombinant Antibody
Conjugate	FITC
Immunogen	Recombinant Human Novel Coronavirus Spike glycoprotein(S) (319-541aa) (and)
Immunogen Species	Human Novel Coronavirus (SARS-CoV-2/ 2019-nCoV)
Abbreviation	S
Research Area	Microbiology
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant antibody	The production of the SARS-CoV-2 Spike RBD recombinant monoclonal antibody is a complex process that requires multiple steps. Firstly, the SARS-CoV-2 Spike RBD monoclonal antibody is collected and its gene sequence is analyzed. Following that, a vector containing the SARS-CoV-2 Spike RBD monoclonal antibody gene is constructed and transfected into a host cell line for culturing. To create the SARS-CoV-2 Spike RBD monoclonal antibody, a recombinant human SARS-CoV-2 Spike glycoprotein (S) (319-541aa) (MBS7135911 and MBS9018425) is used as an immunogen. The SARS-CoV-2 Spike RBD recombinant monoclonal antibody is then purified via affinity chromatography and its specificity is verified through ELISA. It is conjugated with a FITC tag. The SARS-CoV-2 spike RBD plays a critical role in the virus's ability to infect human cells. The RBD binds to the human cell surface receptor ACE2, which is expressed on the surface of cells in various tissues, including the lungs, heart, kidneys, and intestines. This interaction triggers the fusion of the virus and the host cell, allowing the virus to enter the cell and initiate the infection process. Once inside the host cell, the virus uses its own genetic material to hijack the host cell's machinery to replicate and spread. Mutations in the RBD can affect its ability to bind to ACE2, impacting the virus's infectivity and virulence.
Product Categories/Family for COVID-19 recombinant antibody	Microbiology

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
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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-rbd-coronavirus-recombinant-antibody-clone-a1-elisa/243905>