

Rabbit COVID 19 Spike (cleavage site) Coronavirus Polyclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 (COVID-19) Spike Antibody (cleavage site)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40904	Rabbit	Virus	Western Blot, Immunofluorescence, ELISA

PRODUCT SYNONYMS

COVID 19 Spike (cleavage site) Coronavirus; Polyclonal Antibody; SARS-CoV-2 (COVID-19) Spike Antibody (cleavage site); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike (cleavage site); anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

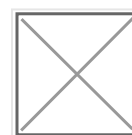
Host	Rabbit
Reactivity	Virus
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid. Supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Sequence Length	1273
Applicable Applications for anti-COVID-19 antibody	WB (Western Blot), IF (Immunofluorescence), ELISA
Immunogen	Anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody was raised against a peptide corresponding to 13 amino acids near the center terminus of SARS-CoV-2 (COVID-19, 2019-nCoV) Spike glycoprotein. The immunogen is located within 650-700 amino acids of SARS-CoV-2 (COVID-19, 2019-nCoV) Spike protein.
Homology	Predicted reactivity based on immunogen sequence: SARS-CoV Spike proteins: (15%)
Isoforms	SARS-CoV-2 (COVID-19, 2019-nCoV) Spike has one isoform (1273aa).
Conjugation	Unconjugated
Preparation and Storage	Can be stored at 4 degree C for three months. Store at -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



ELISA

Figure 2 ELISA Validation with SARS-CoV-2 Spike Recombinant ProteinAntibodies: SARS-CoV-2 (COVID-19) Spike antibody 9095. A direct ELISA was performed using Spike S1 recombinant protein as coating antigen and the anti-SARS-CoV-2 (COVID-19) Spike antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 8 ng/mL to 1000ng/mL.



WB (Western Blot)

Figure 1 Western Blot Validation with SARS-CoV-2 Spike Recombinant ProteinLoading: 50 ng per lane of SARS-CoV-2 Spike S1 recombinant protein. Antibodies: SARS-CoV-2 Spike 9095, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 2.5 μg/mL, Lane 2: 5 μg/mL

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus (1). The disease is the cause of the 2019-20 coronavirus outbreak (2). The structure of 2019-nCoV consists of the following: a Spike protein (S), hemagglutinin-esterase dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleocapsid protein (N) and RNA. Coronavirus invades cells through Spike (S) glycoproteins, a class I fusion protein. It is the major viral surface protein that coronavirus uses to bind to the human cell surface receptor. It also mediates the fusion of host and viral cell membrane, allowing the virus to enter human cells and begin infection (3). The spike protein is the major target for neutralizing antibodies and vaccine development (4). The protein modeling suggests that there is strong interaction between Spike protein receptor-binding domain and its host receptor angiotensin-converting enzyme 2 (ACE2), which regulate both the cross-species and human-to-human transmissions of COVID-19 (5). The recent study has shown that the SARS-CoV-2 spike protein binds ACE2 with higher affinity than SARS-CoV spike protein (6).
Product Categories/Family for anti-COVID-19 antibody	Infectious Disease
References	1) Gorbalenya. bioRxiv: 2020. 2) Hui et al. Int J Infect Dis. 2020;91:264-266. 3) Belouzard et al. Viruses. 2012;4(6):1011-33. 4) Lee et al. J Virol. 2006;80(8):4079-87. 5) Wan et al. J Virol. 2020. 6) Wrapp et al. Science. 2020.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1791269090
NCBI GeneID	43740568
NCBI Official Full Name	surface glycoprotein
NCBI Official Symbol	S
NCBI Official Synonym Symbols	spike glycoprotein
NCBI Protein Information	surface glycoprotein

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/polyclonal/covid-19-spike-cleavage-site-coronavirus-antibody-western-blot-immunofluorescence-elisa/40904>