

Human COVID 19 Spike IgG/IgM Coronavirus Antibody | anti-COVID-19 antibody

SARS-CoV-2 Spike IgG/IgM Antibody (AM043105)(Clone AM043105 (105-43))

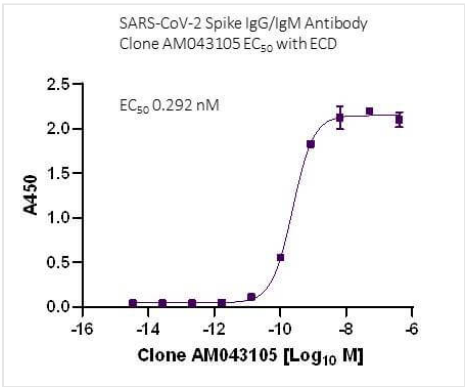
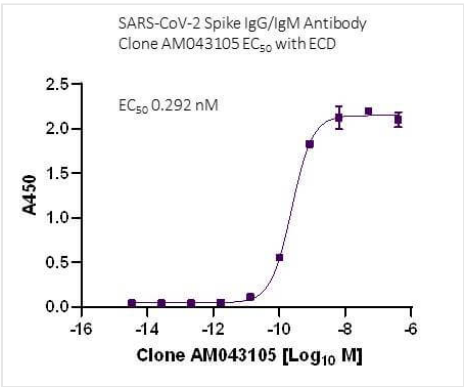
CATALOG # AAA60309	HOST Human	REACTIVITY Virus	APPLICATIONS ELISA
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PRODUCT SYNONYMS

COVID 19 Spike IgG/IgM Coronavirus; SARS-CoV-2 Spike IgG/IgM Antibody (AM043105)(Clone AM043105 (105-43)); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike IgG/IgM; anti-COVID-19 antibody

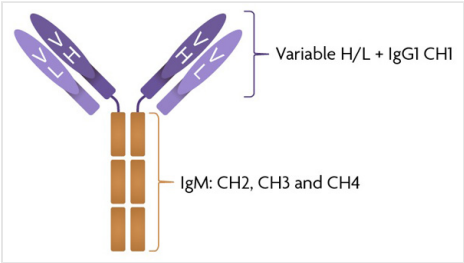
PRODUCT SPECIFICATIONS

Host	Human
Reactivity	Virus
Isotype	IgG/IgM
Clone Number	AM043105 (105-43)
Purity/Purification	Ni-NTA
Form/Format	PBS, 30% glycerol, 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-COVID-19 antibody	ELISA
Antibody Type	Recombinant Antibody
Immunogen	N/A-derived from COVID-19 patients who have cleared the virus. Their antibodies were screened for reactivity to SARS-CoV-2 and then sequenced and expressed as recombinant antibodies.
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul



ELISA
SARS-CoV-2 Spike IgG/IgM Antibody (AM043105) tested by ELISA using SARS Spike protein ECD. SARS-CoV-2 Spike Extracellular Domain (ECD a.a. 14-1213) protein was coated onto microtiter plates at 5 ug/mL and then incubated with a dilution series of SARS-CoV-2 Spike IgG/IgM Antibody (clone AM043105). Bound antibodies were detected with anti-human IgM conjugated to horseradish peroxidase (HRP) followed by incubation with HRP Substrate and then measuring the resulting absorbance at 450 nm.

ELISA
SARS-CoV-2 Spike IgG/IgM Antibody (AM043105) tested by ELISA using SARS Spike protein RBD. SARS-CoV-2 Spike RBD protein was coated onto microtiter plates at 10 ug/mL and then incubated with a dilution series of SARS-CoV-2 Spike IgG/IgM Antibody (clone AM043105). Bound antibodies were detected with anti-human IgM conjugated to horseradish peroxidase (HRP) followed by incubation with HRP Substrate and then measuring the resulting absorbance at 450 nm.



Application Data
SARS-CoV-2 Spike IgG/IgM antibody structure Patient serum IgG was sequenced and expressed as a chimeric full-length human immunoglobulin in mammalian 293 cells. This chimeric antibody contains a heavy chain CH1 that is IgG1 isotype, whereas its CH2/CH3/CH4 regions are IgM isotype. The antibody contains a DYKDDDDK Tag and an 8X His Tag at the C-terminus.

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ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody	Short Description: Our SARS-CoV-2 Spike IgG/IgM Antibody (AM043105)(Clone AM043105 (105-43)) was raised in a Human host. It has been validated for use in ELISA; it has been shown to react with Virus samples. Background: COVID-19, which is short for coronavirus disease 2019, is the official name of the respiratory disease caused by infection with the novel coronavirus SARS-CoV-2. The virus that causes COVID-19 was named SARS-CoV-2 because it is a coronavirus genetically similar to, yet distinct from, the virus that caused the severe acute respiratory syndrome (SARS) outbreak in 2003. Studying the details of how this virus replicates and causes the disease will allow scientists and physicians to more rapidly develop fast and accurate methods of detection as well as to deploy therapeutic and vaccine strategies. This antibody was derived from COVID-19 patients who have cleared the virus. Patient serum IgG was sequenced and expressed as a chimeric full-length human immunoglobulin in mammalian 293 cells. This chimeric antibody contains a heavy chain CH1 that is IgG1 isotype, whereas its CH2/CH3/CH4 regions are IgM isotype. The antibody contains a DYKDDDDK Tag and an 8X His-tag at the C-terminus.
Product Categories/Family for anti-COVID-19 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

UniProt Accession #	QHD43416.1
Molecular Weight	Mol_Mass: 47.9 kDa; AP_Mol_Mass: 50-60 kDa

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/human-covid-19-antibody/covid-19-spike-igg-igm-coronavirus/60309>