

Rabbit COVID 19 Envelope Coronavirus Polyclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 (COVID-19) Envelope antibody (biotin)

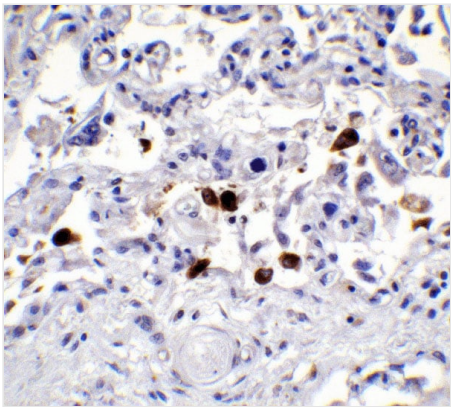
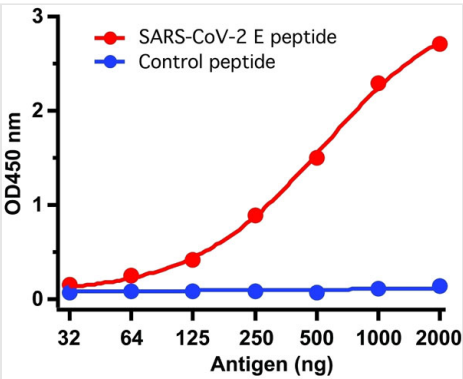
CATALOG #	HOST	REACTIVITY
AAA11034	Rabbit	VirusPredicted reactivity based on immunogen sequence: SARS-CoV Envelope proteins: (100%)

PRODUCT SYNONYMS

COVID 19 Envelope Coronavirus; Polyclonal Antibody; SARS-CoV-2 (COVID-19) Envelope antibody (biotin); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Envelope; SARS-CoV-2 (COVID-19; 2019-nCoV) Envelope Antibody; Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2); Envelope protein; E protein; anti-COVID-19 antibody

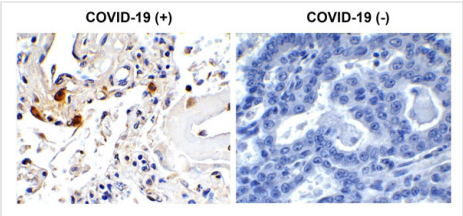
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Virus Predicted reactivity based on immunogen sequence: SARS-CoV Envelope proteins: (100%)
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid. SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Organism	Wuhan seafood market pneumonia virus
Immunogen	Anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody was raised against a peptide corresponding to 10 amino acids near the amino terminus of SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope protein. The immunogen is located within the first 50 amino acids of SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope.
Conjugation	Biotin
Protein GI#	1791269092
Isoform	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope has one isoform (75aa).
Preparation and Storage	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody can be stored at 4 degree C for three months and -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.



ELISA
ELISA Test Antibodies: SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody, 3531 (1 ug/mL). A direct ELISA was performed using antigen or control peptide as coating antigen and the anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody as the capture antibody. Secondary: Goat antirabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 32 ng/mL to 2000ng/mL.

IF (Immunofluorescence)
Co-expression of SARS-CoV-2 (COVID-19) Envelope and C5b-9 in Human Lung Tissue from the COVID-19 Patient Immunofluorescent I analysis of paraffin-embedded COVID-19 patient lung tissue using anti- SARS-CoV-2 (COVID-19) Envelope antibody and envelope proteins detected by envelope antibodies of SARSCoV-2 (panel F) documented localization of each protein to glandular cells with negative squamous cells two weeks after full recovery (panel G, signal yellow). No signal was seen in oral swabs of positive cases (panel H). Both the spike and envelope protein detected by anti-spike antibodies and anti-envelope antibodies produced a signal in the nasopharyngeal swabs of the three cases and no signal was evident in the nasopharyngeal swabs of the seven controls.



IHC (Immunohistochemistry)
IHC/IF Validation in COVID-19 Patient Sample (Nuovo et al., 2020) Detection of SARS-CoV-2 proteins in nasopharyngeal swab cell preparations F-H. Co-expression of spike detected by spike antibodies and envelope prot

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. Envelope protein is a small polypeptide that contains at least one alpha-helical transmembrane domain. It involves in several aspects of the virus's life cycle, such as assembly, budding, envelope formation, and pathogenesis. E protein has membrane permeabilizing activity, which provides a possible rationale to inhibit in vitro ion channel activity of some synthetic coronavirus E proteins, and also viral replication (3).
Product Categories/Family for anti-COVID-19 antibody	Infectious Disease; COVID-19

References

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NCBI AND UNIPROT INFORMATION

NCBI GeneID

[43740570](#)

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