

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

SARS-CoV-2 (COVID-19) Membrane Antibody

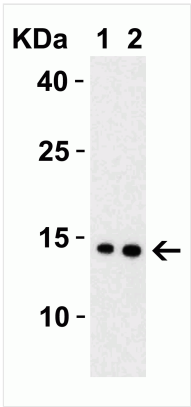
CATALOG # AAA40910	HOST Rabbit	REACTIVITY Virus	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

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

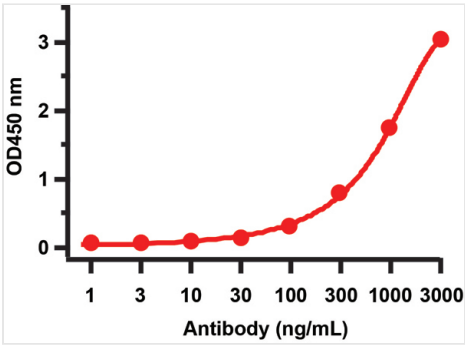
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Virus
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	SARS-CoV-2 (COVID-19) Membrane Antibody is affinity chromatography
Form/Format	Liquid SARS-CoV-2 (COVID-19) Membrane Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-COVID-19 antibody	WB (Western Blot), ELISA
Immunogen	Anti-SARS-CoV-2 (COVID-19) Membrane antibody (9157) was raised against a peptide corresponding to 13 amino acids near the center of SARS-CoV-2 (COVID-19) Membrane protein. The immunogen is located between 130-180 amino acids of the SARS-CoV-2 (COVID-19) Membrane protein.
Homology	Predicted reactivity based on immunogen sequence: SARS-CoV Matrix protein: (100%)
Conjugation	Unconjugated
Preparation and Storage	Antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.



WB (Western Blot)

Figure 2 Western Blot Validation with SARS-CoV-2 (COVID-19) Membrane Protein Loading: 30 ng per lane of SARS-CoV-2 (COVID-19) membrane protein (10-429).Antibodies: SARS-CoV-2 (COVID-19) membrane, 9157, 1h incubation at RT in 5% NFD/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.Lane 1: 0.25 g/mL and Lane 2: 0.5 g/mL



ELISA

Figure 1 ELISA Validation with SARS-CoV-2 (COVID-19) Membrane ProteinAntibodies: SARS-CoV-2 (COVID-19) Membrane Antibody, 9157. A direct ELISA was performed using SARS-CoV-2 membrane recombinant protein (10-429) as coating antigen and the anti-SARS-CoV-2 (COVID-19) Membrane antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 1 ng/mL to 3000 ng/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. The disease is the cause of the 2019-20 coronavirus outbreak (1). SARS-CoV-2 is the seventh member of the enveloped, positive-stranded RNA viruses that are able to infect humans. The SARS-CoV-2 genome, like other coronaviruses, encodes for multiple structural and nonstructural proteins. The structural proteins include spike protein (S), envelope protein (E), membrane glycoprotein (M), nucleocapsid phosphoprotein (N), and the nonstructural proteins include open reading frame 1ab (ORF1ab), ORF3a, ORF6, ORF7a, ORF8, and ORF10 (2).The membrane (M) protein or matrix protein is the most abundant structural protein and defines the shape of the viral envelope (3). It is an integral membrane protein involved in the budding of the viral particles and interacts with S (Spike) protein. It involves in organization of the nucleoprotein inside, which includes many copies of the N (nucleocapsid) protein bound to the genomic RNA. The M protein holds dominant cellular immunogenicity and has been determined as a protective antigen in humoral responses, which suggests it would serve as a potential target in vaccine design (4).
Product Categories/Family for anti-COVID-19 antibody	Infectious Disease; COVID-19
References	Zhu et al. N Engl J Med. 2020 Feb 20;382(8):727-733. Kiyotani et al. J Hum Genet. 2020 Jul;65(7):569-575 Neuman et al. J Struct Biol. 2011;174(1):11-22. Liu et al. J Infect Dis. 2010;202(8):1171-80.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1800455127
NCBI GeneID	43740571

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.