

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

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

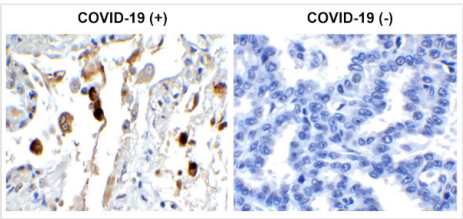
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40912	Rabbit	Virus	Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

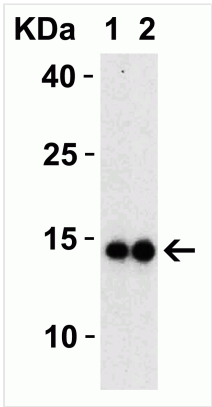
COVID 19 Membrane Coronavirus; Polyclonal Antibody; SARS-CoV-2 (COVID-19) Membrane Antibody; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Membrane; anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

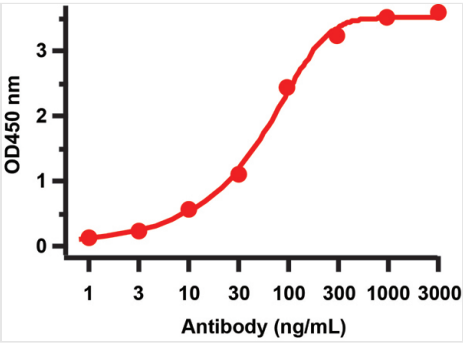
Host	Rabbit
Reactivity	Virus
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	SARS-CoV-2 (COVID-19) Membrane Antibody is affinity chromatography purified via peptide column
Form/Format	Liquid SARS-CoV-2 (COVID-19) Membrane Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-COVID-19 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Anti-SARS-CoV-2 (COVID-19) Membrane antibody was raised against a peptide corresponding to 15 amino acids near the carboxyl terminus of SARS-CoV-2 (COVID-19) Membrane protein. The immunogen is located within the last 50 amino acids of SARS-CoV-2 (COVID-19) Membrane protein.
Homology	Predicted reactivity based on immunogen sequence: SARS-CoV Matrix protein: (93%)
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.



IHC (Immunohistochemistry)
Immunohistochemistry Validation of SARS-CoV-2 (COVID-19) Membrane in COVID-19 Patient Lung. Immunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti-SARS-CoV-2 (COVID-19) Membrane antibody (AAA40912, 0.5 ug/mL). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Strong signal of SARS-CoV-2 Membrane protein was observed in macrophage of COVID-19 patient lung, but not in non-COVID-19 patient lung.



WB (Western Blot)
Western Blot Validation with SARS-CoV-2 (COVID-19) Membrane Protein. Loading: 30 ng per lane of SARS-CoV-2 (COVID-19) membrane protein. Antibodies: SARS-CoV-2 (COVID-19) membrane, AAA40912, 1h incubation at RT in 5% NFD/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.25 ug/mL and Lane 2: 0.5 ug/mL.



ELISA
Figure 1 ELISA Validation with SARS-CoV-2 (COVID-19) Membrane Protein. Antibodies: SARS-CoV-2 (COVID-19) Membrane Antibody, AAA40912. A direct ELISA was performed using SARS-CoV-2 membrane protein 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 0.3 ng/mL to 3000 ng/mL.

ADDITIONAL INFORMATION

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.