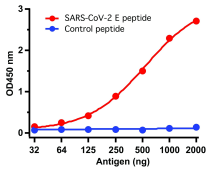
SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody

Cat. No.: 3531



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Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Virus
HOMOLOGY:	Predicted reactivity based on immunogen sequence: SARS-CoV Envelope proteins: (100%)
IMMUNOGEN:	Anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody (**3531**) 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.
TESTED APPLICATIONS:	ELISA
APPLICATIONS:	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody can be used for the detection of SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope protein in ELISA. It will detect 20 ng of free peptide at 1 µg/mL.

Properties

PURIFICATION:	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal

ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody can be stored at 4 ˚ C for three months and -20 ˚ 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.

Additional Info

OFFICIAL SYMBOL:	E
ALTERNATE NAMES:	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), Envelope protein, E protein
ACCESSION NO.:	QHD43418
PROTEIN GI NO.:	1791269092
GENE ID:	43740570
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	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-esterease dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleoclapid protein (N) and RNA. Envelope protein is a small polypeptide that contains at least one α-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).
REFERENCES:	1) Gorbalenya. bioRxiv: 2020.
	2) Hui et al. Int J Infect Dis. 2020;91:264-266.
	3) Pervushin et al. PLoS Pathog. 2009; 5(7): e1000511.

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