

SARS-CoV-2 (COVID-19) Envelope Antibody (HRP)

Infectious Disease, COVID-19

Catalog # ASC12197

Product Information

Application	E
Primary Accession	QHD43418
Other Accession	QHD43418
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	E
Concentration (mg/ml)	1 mg/mL
Conjugate	HRP

Additional Information

Gene ID	43740570
Alias Symbol	E
Other Names	SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope Antibody: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), Envelope protein, E protein
Reconstitution & Storage	SARS-CoV-2 (COVID-19) 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.
Precautions	SARS-CoV-2 (COVID-19) Envelope Antibody (HRP) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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-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).

References

Gorbalenya. bioRxiv: 2020.
Hui et al. Int J Infect Dis. 2020;91:264-266.
Pervushin et al. PLoS Pathog. 2009; 5(7): e1000511.

Images

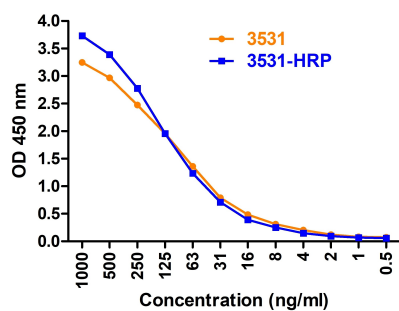


Figure 1 ELISA Validation
Coating Antigen: immunogen peptide, 3531P, 10 µg/mL, incubate at 4 °C overnight. Detection Antibodies: SARS-CoV-2 Spike antibody, ASC12197 or 3531, dilution: 0.5-1000 ng/mL, incubate at RT for 1 hr. 3531 was detected by anti-rabbit HRP-conjugated secondary antibodies at 1:10,000, incubate at RT for 1 hr.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.