10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Infectious Disease, COVID-19
Catalog # ASC12229

Specification

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - Product Information

Application	**E**
Primary Accession	QHD43418
Other Accession	QHD43418
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - Additional Information

Gene ID	**43740570**

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, 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.

Precautions
SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) is for research use only and not for use in diagnostic or therapeutic procedures.

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - Protein Information

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - Images

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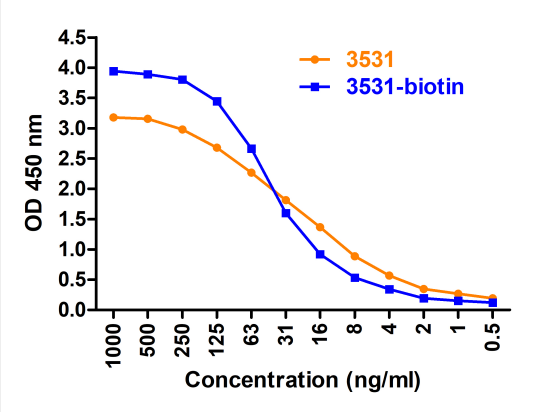

Figure 1 ELISA Validation
Coating Antigen: immunogen peptide, 3531P, 10 µg/mL, incubate at 4 ˚C overnight. Detection Antibodies: SARS-CoV-2 Spike antibody, 3531-biotin or 3531, dilution: 0.5-1000 ng/mL, incubate at RT for 1 hr. 3531-biotin was detected by HRP-conjugated streptavidin at 1:5,000 and 3531 was detected by anti-rabbit HRP conjugated secondary antibodies at 1:10,000 , incubate at RT for 1 hr.

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - 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 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).

SARS-CoV-2 (COVID-19) Envelope Antibody (biotin) - References

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