

**SARS-CoV-2 (COVID-19) Envelope Antibody (HRP)**  
Infectious Disease, COVID-19  
Catalog # ASC12197

**Specification**

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

Application	E
Primary Accession	<a href="#">OHD43418</a>
Other Accession	<a href="#">OHD43418</a>
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG

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

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

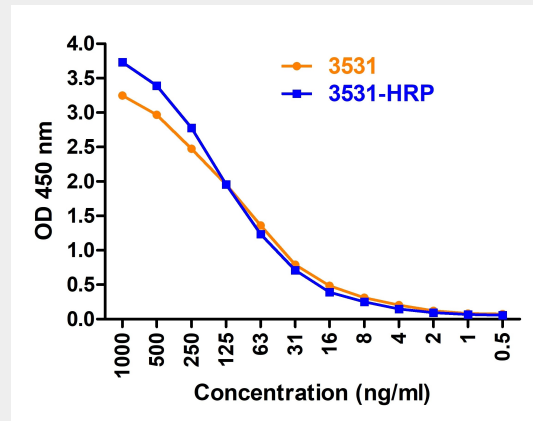
**SARS-CoV-2 (COVID-19) Envelope Antibody (HRP) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

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

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

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