

## Product Datasheet

### SARS-CoV-2 (COVID-19) Envelope Antibody (HRP) (orb1239043)

<b>Catalog Number</b>	orb1239043
<b>Description</b>	SARS-CoV-2 (COVID-19) Envelope Antibody (HRP)
<b>Reactivity</b>	Virus
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	ELISA, IHC
<b>Immunogen</b>	Anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Envelope antibody (HRP) (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.
<b>Target</b>	E
<b>Preservatives</b>	SARS-CoV-2 (COVID-19) Envelope Antibody is supplied in PBS containing 0.02% sodium azide.
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	1 mg/mL
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Application notes</b>	IHC: 2 µg/mL Antibody validated: Immunohistochemistry in COVID-19 patient samples. All other applications and species not yet tested.
<b>Isotype</b>	IgG

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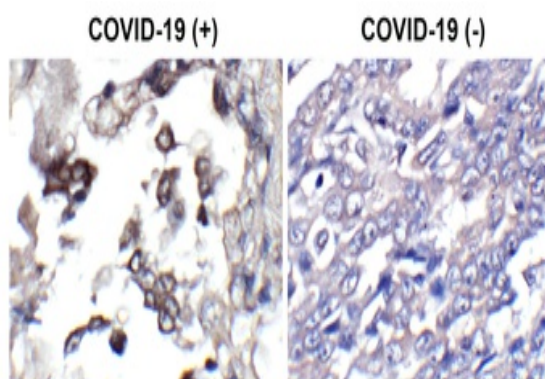
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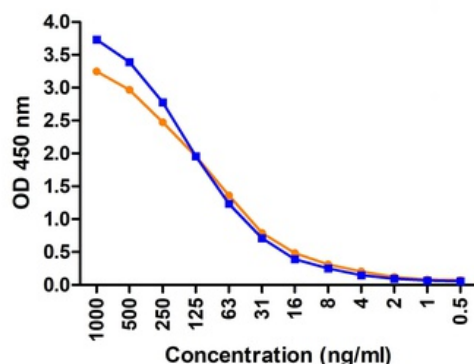
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<b>Clonality</b>	Polyclonal
<b>Antibody Type</b>	Primary Antibody
<b>Uniprot ID</b>	QHD43418
<b>NCBI</b>	<b>QHD43418</b>
<b>Expiration Date</b>	12 months from date of receipt.



**Immunohistochemistry Validation of SARS-CoV-2 (COVID-19) Envelope Protein in COVID-19 Patient Lung.**  
Immunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti- SARS-CoV-2 (COVID-19) envelope antibody (orb1239043, 2 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. Counter stained with Hematoxylin. Strong signal of SARS-COV-2 envelope protein was observed in macrophages of COVID-19 patient lung, but not in non-COVID-19 patient lung.



**ELISA Validation.** Coating Antigen: immunogen peptide, orb1236593, 10 ug/mL, incubate at 4 °C overnight. Detection Antibodies: SARS-CoV-2 Spike antibody, orb1239043 or orb1239971, dilution: 0.5-1000 ng/mL, incubate at RT for 1 hr. orb1239971 was detected by anti-rabbit HRP-conjugated secondary antibodies at 1:10000, incubate at RT for 1 hr.

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