

Datasheet: AHP3019

Description:	RABBIT ANTI SARS-CoV-2 ENVELOPE
Specificity:	SARS-CoV-2 ENVELOPE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			3 ug/ml - 2 ug/ml
ELISA	▪			2000 ng/ml - 32 ng/ml
Immunofluorescence	▪			3 ug/ml - 2 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Rabbit polyclonal antibody purified by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	1.0 mg/ml

Immunogen

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,

External Database**Links****UniProt:**[P0DTC4](#)[Related reagents](#)**Specificity**

Rabbit anti SARS-CoV-2 envelope antibody recognizes envelope small membrane protein, also known as sM protein and E.

Human coronaviruses are pathogens that can cause severe respiratory tract infections. SARS-CoV-2 is a novel human coronavirus characterized in 2020, and causes "coronavirus disease 2019" or "COVID-19" (Xu et al. 2020). The four main structural proteins of SARS-CoV-2 are the spike (S) glycoprotein, the membrane (M) matrix protein, the nucleocapsid (N) protein, and the envelope (E) protein (Duart et al. 2020). The envelope protein plays a role in compromising the integrity of host membranes and forming membranous compartments in which the virus to replicate (Mukherjee et al. 2020). It forms a homopentameric cation channel which mediates the budding and release of progeny viruses and activates the host inflammasome. Deletion of the envelope protein attenuates some coronaviruses, and the envelope protein has been suggested as a potential drug and vaccine target (Mandala et al. 2020).

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP3019>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

