

## Datasheet: AHP3019

**BATCH NUMBER 157098**

<b>Description:</b>	RABBIT ANTI SARS-CoV-2 ENVELOPE
<b>Specificity:</b>	SARS-CoV-2 ENVELOPE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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.

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

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**External Database Links**

**UniProt:**

[P0DTC4](#)     [Related reagents](#)

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**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).

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)     [FITC](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...)     [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...)     [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...)     [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)

