

Datasheet: AHP3017

Description:	RABBIT ANTI SARS-CoV-2 SPIKE PROTEIN RBD
Specificity:	SARS-CoV-2 SPIKE PROTEIN RBD
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
ELISA	▪			1000 ng/ml - 8 ng/ml
Western Blotting	▪			5 ug/ml - 2 ug/ml
Immunofluorescence	▪			20 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 19 amino acids near the carboxy terminus of SARS-CoV-2 (COVID-19) Spike glycoprotein RBD.

The immunogen is located within the last 50 amino acids of SARS-CoV-2 (COVID-19)

Spike protein RBD.

External Database**Links****UniProt:**[P0DTC2](#)[Related reagents](#)

Specificity

Rabbit anti SARS-CoV-2 spike protein RBD antibody recognizes spike glycoprotein, also known as S glycoprotein, peplomer protein and E2.

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 spike glycoproteins of coronaviruses are incorporated into the viral envelope and promote entry into cells (Walls et al. 2020). The spike glycoprotein of SARS-CoV-2 is comprised of two subunits called S1 and S2. The S1 protein binds to a receptor on human cells, and the transmembrane unit S2 helps fuse the viral membrane with a cellular membrane (Hoffmann et al. 2020). Specifically, both SARS-CoV and SARS-CoV-2 spike proteins contain a receptor-binding domain (RBD) that recognize the same receptor, ACE2, on human cells (Shang et al. 2020). This antibody recognizes the RBD of the SARS-CoV-2 spike protein.

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/AHP3017>
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)

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