

Datasheet: AHP3015

BATCH NUMBER 157102

Description:	RABBIT ANTI SARS-CoV-2 SPIKE PROTEIN
Specificity:	SARS-CoV-2 SPIKE PROTEIN
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	▪			0.2 ug/ml
ELISA	▪			1000 ng/ml - 0.5 ng/ml
Western Blotting	▪			1 ug/ml
Immunofluorescence	▪			1 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 20 amino acids near the carboxy terminus of SARS-CoV-2 (COVID-19) Spike glycoprotein.

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

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

Specificity

Rabbit anti SARS-CoV-2 spike protein 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).

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.

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/AHP3015>
10040

Regulatory

For research purposes only

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](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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)

