Datasheet: AHP3013

BATCH NUMBER 157097

Description:	RABBIT ANTI SARS-CoV-2 SPIKE PROTEIN S1
Specificity:	SARS-CoV-2 SPIKE PROTEIN S1
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	▪			0.5 ug/ml
ELISA	▪			1000 ng/ml - 8 ng/ml
Western Blotting	▪			1 ug/ml
Immunocytochemistry	▪			5 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 16 amino acids near the amino terminus of SARS-CoV-2 (COVID-19) Spike S1 glycoprotein.

	The immunogen is located within the first 50 amino acids of SARS-CoV-2 (COVID-19) Spike S1 protein.
External Database Links	**UniProt:** P0DTC2 Related reagents
Specificity	**Rabbit anti SARS-CoV-2 spike protein S1 antibody** recognizes spike glycoprotein S1, 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 spike S1 protein of SARS-CoV-2.
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/AHP3013 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

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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

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