

Datasheet: MCA6372

Description:	MOUSE ANTI SARS-CoV NUCLEOPROTEIN
Specificity:	SARS-CoV NUCLEOPROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3861
Isotype:	IgG1
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	▪			10 ug/ml - 1.0 ug/ml
Western Blotting	▪			1.0 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	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant fragment aa1-49 of the SARS nucleoprotein
External Database Links	UniProt:

Specificity	Mouse anti SARS-CoV nucleoprotein antibody recognizes nucleoprotein, also known as nucleocapsid protein and Protein N. The nucleoprotein (N) is the most abundant viral protein in SARS-CoV-infected cells (Chang et al. 2014). It is one of the four structural proteins essential for viral assembly, alongside the spike (S), envelope (E), and membrane (M) proteins (Bartlam et al. 2005). The nucleoprotein encloses the viral genome; during assembly of the virion, nucleoprotein binds to viral RNA and forms the helical nucleocapsid (Zhu et al. 2004). It appears to be a multifunctional protein, and plays an important role in enhancing viral transcription and assembly (McBride et al. 2014). The N protein of a range of coronaviruses are abundantly expressed and are highly immunogenic, and high concentrations of anti-nucleoprotein IgG antibodies have been detected in patients with SARS. These properties have made the nucleoprotein of SARS-CoV-2 a target of interest for developing a vaccine against COVID-19 (Dutta 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: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

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

'M391384:211012'

Printed on 21 Mar 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)