

Datasheet: MCA6372

**BATCH NUMBER 156961**

<b>Description:</b>	MOUSE ANTI SARS-CoV NUCLEOPROTEIN
<b>Specificity:</b>	SARS-CoV NUCLEOPROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3861
<b>Isotype:</b>	IgG1
<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
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.

<b>Target Species</b>	Viral
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant fragment aa1-49 of the SARS nucleoprotein

**External Database  
Links**

**UniProt:**

[P59595](#)

[Related reagents](#)

**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**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted.

**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/MCA6372>  
10040

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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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