

Datasheet: PIP054

**BATCH NUMBER 167927**

|                      |                          |
|----------------------|--------------------------|
| <b>Description:</b>  | SARS-CoV-2 NUCLEOPROTEIN |
| <b>Name:</b>         | SARS-CoV-2 NUCLEOPROTEIN |
| <b>Format:</b>       | Rec. Protein             |
| <b>Product Type:</b> | Antigen                  |
| <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 | ▪   |    |                |                    |

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>Species Cross Reactivity</b> | <p>Reacts with: Viral</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p> |
| <b>Product Form</b>             | Purified recombinant protein - liquid   |
| <b>Preparation</b>              | Recombinant SARS-CoV-2 full-length nucleoprotein, expressed and purified from <i>E. coli</i> with a 6x His-tag.   |
| <b>Source</b>                   | E.coli  |
| <b>Buffer Solution</b>          | 20mM Sodium Phosphate<br>25mM Potassium Carbonate pH10.0<br>150mM Sodium Chloride   |
| <b>Preservative</b>             | None present  |

## Stabilisers

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**Approx. Protein Concentrations** Current, batch-specific concentration 1.88 mg/ml

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**External Database Links** **UniProt:**  
[A0A6C0T6Z7](#) [Related reagents](#)

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**Specificity** **Recombinant SARS-CoV-2 nucleoprotein** is a purified preparation of the SARS CoV-2 nucleoprotein.

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 and appears to play an important role in enhancing viral transcription ([Zhu et al. 2004](#)).

Mouse anti SARS-CoV Nucleoprotein [MCA6372](#) is recommended for use as a capture antibody in ELISA with Mouse anti SARS-CoV Nucleoprotein [MCA6373](#) as a detection antibody.

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**Storage** Store at -70°C.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information** Material Safety Datasheet documentation #20501 available at:  
<https://www.bio-rad-antibodies.com/SDS/PIP054>  
20501

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**Regulatory** For research purposes only

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## Related Products

### **ELISA Matched Pair - Capture Antibody**

[MOUSE ANTI SARS-CoV NUCLEOPROTEIN \(MCA6372\)](#)

### **ELISA Matched Pair - Detection Antibody**

[MOUSE ANTI SARS-CoV NUCLEOPROTEIN \(MCA6373\)](#)

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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://bio-rad-antibodies.com/datasheets)

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