

Datasheet: PIP054

Description:	SARS-CoV-2 NUCLEOPROTEIN
Name:	SARS-CoV-2 NUCLEOPROTEIN
Format:	Rec. Protein
Product Type:	Antigen
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	▪			

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
Species Cross Reactivity	<p>Reacts with: Viral</p> <p>N.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>
Product Form	Purified recombinant protein - liquid
Preparation	Recombinant SARS-CoV-2 full-length nucleoprotein, expressed and purified from <i>E. coli</i> with a 6x His-tag.
Source	E.coli
Buffer Solution	20mM Sodium Phosphate 25mM Potassium Carbonate pH10.0 150mM Sodium Chloride
Preservative Stabilisers	None present

Approx. Protein Concentrations Current, batch-specific concentration 1.45 mg/ml

External Database Links

UniProt:
[A0A6C0T6Z7](#) [Related reagents](#)

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.

Amino Acid Sequence aa1-419 (Accession number MN908947)

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.

Guarantee 12 months from date of despatch

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

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

Regulatory For research purposes only

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

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