Datasheet: PIP054

BATCH NUMBER 160113

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

Reacts with: Viral

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.

Product Form

Purified recombinant protein - liquid

Preparation

Recombinant SARS-CoV-2 full-length nucleoprotein, expressed and purified from *E. coli* with a 6x His-tag.

Buffer Solution

20mM Sodium Phosphate
25mM Potassium Carbonate pH10.0
150mM Sodium Chloride

Preservative Stabilisers

None present

Approx. Protein Concentrations	Current, batch-specific concentration 1.88 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.
Storage	Store at -70^{o}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
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)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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