

Product datasheet

Anti-SARS-CoV-2 nucleocapsid protein antibody ab273167

[2 Images](#)

Overview

Product name	Anti-SARS-CoV-2 nucleocapsid protein antibody
Description	Rabbit polyclonal to SARS-CoV-2 nucleocapsid protein
Host species	Rabbit
Tested applications	Suitable for: WB, IHC
Species reactivity	Reacts with: SARS-CoV-2
Immunogen	Synthetic peptide within Human SARS-CoV-2 nucleocapsid protein aa 1-100. The exact sequence is proprietary.
Positive control	WB: Recombinant Nucleoprotein from SARS-CoV-2. IHC: Human lung tissue.
General notes	Applications overview

Tick: Tested and Guaranteed to work X: Will not work —: No data

	WB	IHC	ICC/IF	Flow Cyt	ELISA	IP
SARS-CoV	—	—	—	—	—	—
SARS-CoV2	✓	✓	—	—	—	—

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 0.16% Tris HCl, 0.87% Sodium chloride
Purity	>95% by SDS-PAGE
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab273167** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

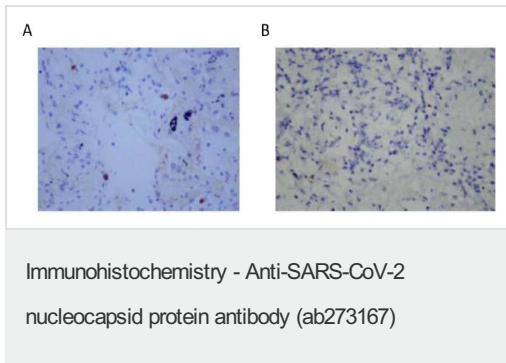
Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 50 kDa.
IHC		Use a concentration of 2 - 10 µg/ml.

Target

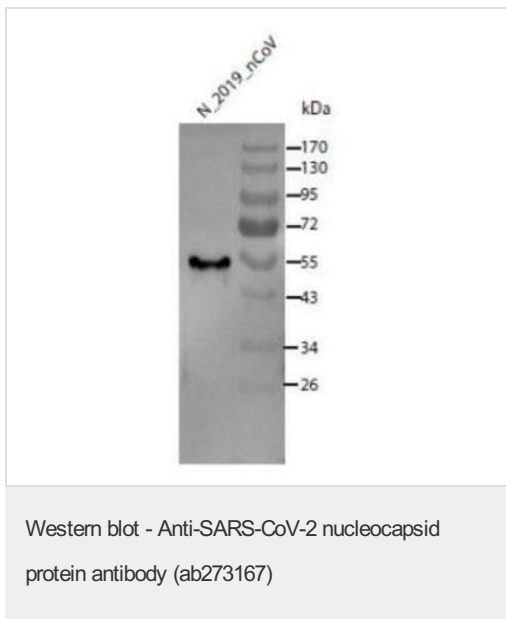
Relevance

Nucleocapsid protein is a most abundant protein of coronavirus on the helical nucleocapsid of coronaviruses. N protein of SARS CoV-2 [ab273530](#) is a structural protein required for RNA synthesis, and has RNA chaperone activity that may be involved in template switch. N protein enters the host cell with the viral RNA to facilitate its replication and process the virus particle assembly and release. N protein is a highly immunogenic phosphoprotein also implicated in modulating cell signalling pathways. Coronavirus nucleocapsid proteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein.

Images



Immunohistochemistry analysis of patient lung biopsy samples infected with SARS-CoV-2 (A) and diagnosed with non-specific lung infection (B) labelling SARS-CoV-2 Nucleoprotein (dark brown) using ab273167 at 10 µg/ml, followed by HRP-conjugated Goat Anti-Rabbit IgG. Magnification (x400). Cells in Fig (A) stained dark brown confirm SARS-CoV-2 infection.



Anti-SARS-CoV-2 nucleocapsid protein antibody (ab273167) at 2 µg/ml + Purified recombinant Nucleoprotein from SARS-CoV-2

Predicted band size: 50 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors