

## Product datasheet

# Anti-SARS-CoV-2 nucleocapsid protein antibody [ABK79-E11] ab283894

Recombinant

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-SARS-CoV-2 nucleocapsid protein antibody [ABK79-E11]
<b>Description</b>	Human monoclonal [ABK79-E11] to SARS-CoV-2 nucleocapsid protein
<b>Host species</b>	Human
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> SARS-CoV-2
<b>Immunogen</b>	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Recombinant Human coronavirus SARS-CoV-2 nucleocapsid protein (His tag) Elisa: Recombinant Human coronavirus SARS nucleocapsid protein
<b>General notes</b>	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	ABK79-E11

Isotype

IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab283894 in the following tested applications.

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

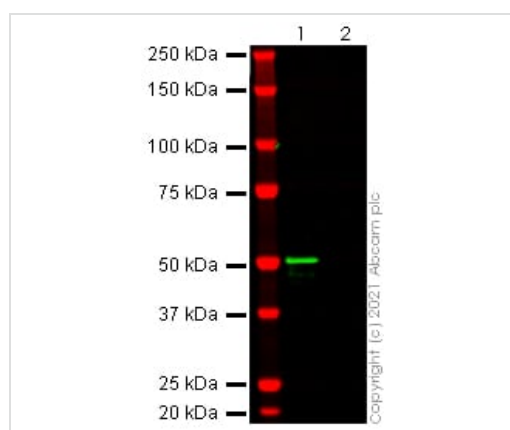
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 51 kDa.
ELISA		Use a concentration of 0 - 0.1 µg/ml.

## 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



Western blot - Anti-SARS-CoV-2 nucleocapsid protein antibody [ABK79-E11] (ab283894)

**All lanes** : Anti-SARS-CoV-2 nucleocapsid protein antibody [ABK79-E11] (ab283894)

**Lane 1** : Recombinant Human coronavirus SARS-CoV-2 nucleocapsid protein (His tag) (**ab273530**)

**Lane 2** : Recombinant Human coronavirus SARS Nucleocapsid Protein (**ab270829**)

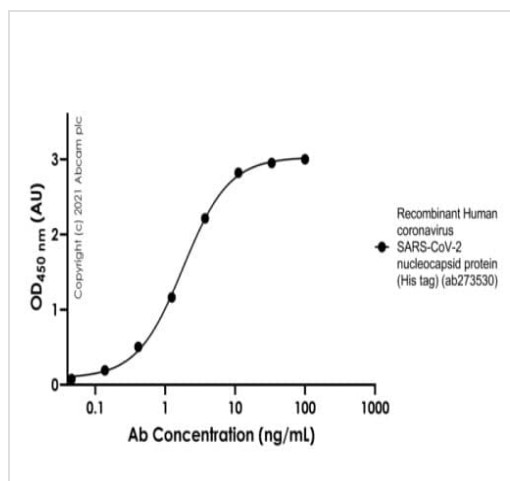
Lysates/proteins at 0.2 µg per lane.

### Secondary

**All lanes** : Goat anti-Human 800CW at 1/20000 dilution

**Lanes 1 - 2:** Green - ab283894 observed at 51 kDa. ab283894 was shown to react with SARS-CoV-2 N-protein in Western blot. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab283894 overnight at 4 °C at a 1 in 1000

dilution. Blots were incubated with Goat anti-Human 800CW secondary antibody at 1 in 20000 dilution for 1 h at room temperature before imaging.



ELISA - Anti-SARS-CoV-2 nucleocapsid protein antibody [ABK79-E11] (ab283894)

Human monoclonal [ABK79-E11] to SARS-CoV-2 nucleocapsid protein (ab283894)

Plates were coated with Recombinant Human coronavirus SARS-CoV-2 nucleocapsid protein (His tag, **ab273530**) at 1000 ng/ml.

Primary antibody (ab283894) concentration range 0.045-100 ng/mL.

Secondary antibody, Goat Anti-Human IgG Fc (HRP) preadsorbed (**ab98624**) used at 1/1000 dilution.

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

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