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Datasheet for ABIN6953169

## anti-SARS-CoV-2 Nucleocapsid antibody

### 1 Image

#### Overview

Quantity:	1 mg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Beta, SARS CoV-2 Delta, SARS CoV-2 Gamma, SARS CoV-2 Omicron, SARS CoV-2 Alpha
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SARS-CoV-2 Nucleocapsid antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Lateral Flow (LF)

#### Product Details

Purpose:	Monoclonal Antibody to SARS-CoV-2 Nucleocapsid Protein
Immunogen:	Recombinant SARS-CoV-2 Nucleocapsid Protein
Isotype:	IgG1
Specificity:	This antibody and its recommended antibody pair have been proven to detect all known SARS-CoV-2 variants such as Omicron variant (B.1.1.529), Alpha (B.1.1.7), Beta (B.1.351), Gamma (P.1), and Delta (B.1.617.2). This antibody is used in several regulated immunoassays worldwide.
Cross-Reactivity (Details):	This antibody does <b>not cross react with</b> : <ul style="list-style-type: none"><li>• MERS-coronavirus</li><li>• Human coronavirus (NL63, 229E, OC43)</li><li>• Human Adenovirus (type 1, 3, 5, 7, 8, 11, 18, 23)</li></ul>

## Product Details

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- Human Parainfluenza virus (type 1, 2, 3, 4)
- Human Rhinovirus (type 1, 14, 42)
- Human Metapneumovirus
- Respiratory syncytial virus-A
- Respiratory syncytial virus-B

This antibody **does cross react** with SARS-CoV.

**Characteristics:** The performance of a rapid antigen test is limited by the sensitivity of the antibodies used. The new pair of monoclonal antibodies is highly sensitive for the detection of SARS-CoV-2 Nucleoprotein and they do not cross-react with seasonal coronavirus strains. They are ideal for developing reliable and sensitive rapid lateral flow antigen assays for the detection of active COVID-19 infections.

**Purification:** Protein A Chromatography

**Purity:** > 95 % (SDS-PAGE)

## Target Details

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**Target:** SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)

**Alternative Name:** SARS-CoV-2 Nucleocapsid Protein ([SARS-CoV-2 N Products](#))

**Target Type:** Viral Protein

## Application Details

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**Application Notes:** Each laboratory should determine an optimum working titer for use in its particular application.

Recommended pair for Immunoassay:

Capture - Detection

- ABIN6953170 - ABIN6953169
- ABIN6953170 - ABIN6953295

**Comment:** An FDA-approved COVID-19 lateral flow assay using the SARS-CoV-2 nucleocapsid antibody pair (ABIN6953170 + ABIN6953169) shows that the pair can detect the Omicron variant (live virus of B.1.1.529) up to  $1.31 \times 10^2$  PFU/mL, and other variants up to  $1.88 \times 10^2$  PFU/mL. The two antibodies recognize the conserved nucleoprotein domain of SARS-CoV-2 and are already used in many commercially available COVID-19 antigen rapid tests around the world. These two antibodies work as a High-Sensitivity SARS-CoV-2 Nucleoprotein Antibody Pair for Rapid COVID-19 Antigen Assays: ABIN6953170, ABIN6953169

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 4.8 mg/mL

Buffer: Phosphate Buffered Saline, pH 7.4, 0.05 % Sodium Azide

Preservative: Sodium azide

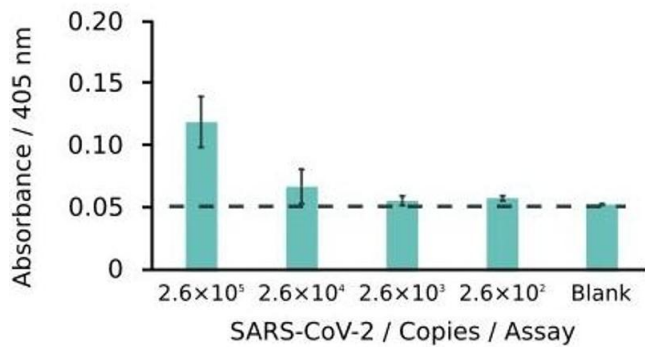
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles

Storage: -20 °C

Storage Comment: Store at -20°C

## Images



### ELISA

**Image 1.** Because a SARS-CoV-2 virus contains single-stranded RNA, the RNA copies on the x-axis correspond to the number of virions. The data is representative of several replicated experiments. The error bars show the standard deviation of triplicate experiments. There is a significant difference between the results of  $2.6 \times 10^3$  RNA copies/assay and those of  $2.6 \times 10^4$  RNA copies/assay. The horizontal dashed line shows the absorbance value of the blank. The experiments consistently obtained signals that were higher than the blank at concentrations above  $2.6 \times 10^4$  RNA copies/assay.