

Rabbit SARS-CoV-2 (2019-nCoV) Nucleocapsid Monoclonal Antibody | anti-NP-CoV antibody

SARS-CoV-2 (2019-nCoV) Nucleocapsid Antibody, Rabbit MAb

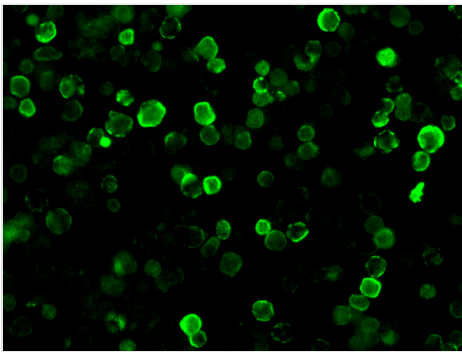
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257786	Rabbit	SARS-CoV-2	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, ELISA, Western Blot

PRODUCT SYNONYMS

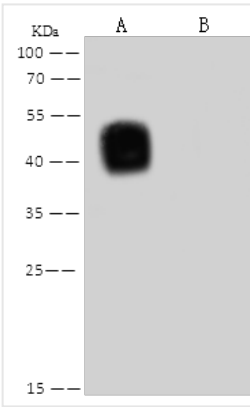
SARS-CoV-2 (2019-nCoV) Nucleocapsid; Monoclonal Antibody; SARS-CoV-2 (2019-nCoV) Nucleocapsid Antibody; Rabbit MAb; anti-NP-CoV antibody

PRODUCT SPECIFICATIONS

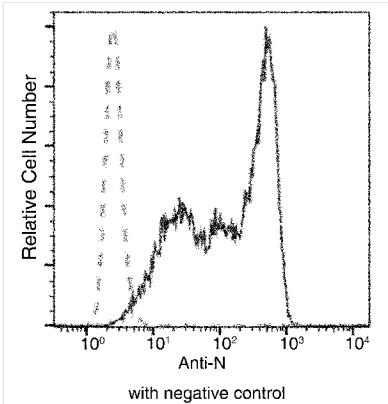
Host	Rabbit
Reactivity	SARS-CoV-2
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	C02
Specificity	SARS-CoV-2 (2019-nCoV) Nucleocapsid
Purity/Purification	Protein A
Form/Format	Liquid. 0.2um filtered solution in PBS
Applicable Applications for anti-NP-CoV antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, ELISA, WB (Western Blot)
Immunogen	Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein
Conjugation	Unconjugated
Preparation	This product is a recombinant monoclonal antibody expressed from HEK293 cells.
Notes	ELISA(Det): In a sandwich ELISA, it can be used as detection antibody.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.



IF (Immunofluorescence)
Immunofluorescence analysis of SARS-COV-2 Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS-CoV-2 Nucleocapsid Rabbit Mab, then a Alexa Fluor-488-conjugated second step antibody.



WB (Western Blot)
Anti-SARS-CoV-2 (2019-nCoV) Nucleocapsid rabbit monoclonal antibody at 1:5000 dilution. Lane A: SARS-COV-2 Nucleocapsid overexpressed HEK293 Whole Cell Lysate Lane B: HEK293 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of SARS-COV-2 Nucleocapsid overexpressed HEK293 Cells were stained with purified anti-SARS-COV-2 Nucleocapsid Rabbit Mab, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-NP-CoV antibody	Background: Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins 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. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a test tool.
References	1. Van Boheemen S, et al. (2012), MBio. 3(6):e00473-12. Bisht H. et al., 2004, Proc Natl Acad Sci. 101 (17): 6641-6. Li W. et al., 2005, Science. 309 (5742): 1864-8.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.