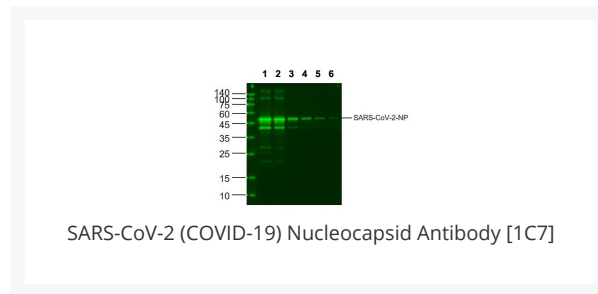




SARS-CoV-2 (COVID-19) Nucleocapsid Antibody [1C7]

Cat. No.: 10-605



Ψ Specifications

HOST SPECIES:	Mouse
SPECIES REACTIVITY:	Virus
IMMUNOGEN:	Recombinant SARS-CoV-2 N protein (His-tag)
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	WB(1:500-2000), ELISA(1:5000-1000)

Ψ Properties

PURIFICATION:	Purified by Protein G.
CLONALITY:	Monoclonal
ISOTYPE:	IgG2b
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	0.01M PBS(pH7.4) with 0.1% Proclin300
CONCENTRATION:	≥1 mg/mL
STORAGE CONDITIONS:	Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

OFFICIAL SYMBOL:	N
ALTERNATE NAMES:	SARS-CoV-2 Nucleocapsid Protein, SARS-CoV-2 NP, nucleocapsid protein [Severe acute respiratory syndrome coronavirus 2], novel coronavirus N Protein, novel coronavirus Nucleocapsid Protein, 2019-nCoV Nucleoprotein, 2019-nCoV N, 2019nCoV N, 2019-nCoV N Protein, 2019 peak N Protein, 2019-nCoV nucleocapsid protein.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

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. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to 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 N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.
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