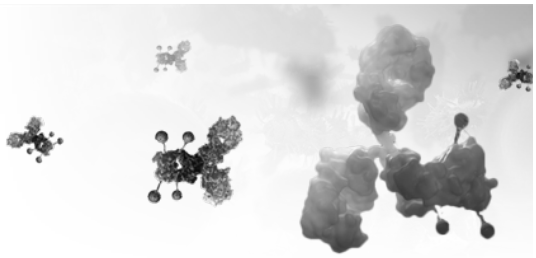

Rabbit anti-SARS-CoV-2 NP monoclonal antibody, clone 120 (CABT-RM320)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	2019-nCoV CoV Nucleocapsid. Has cross-reactivity in ELISA with SARS-CoV Nucleoprotein / NP Protein
Target	SARS-CoV-2
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	SARS-CoV-2, SARS-CoV
Clone	120
Purification	Protein A affinity chromatography
Conjugate	unconjugated
Applications	ELISA, WB
Format	liquid
Size	1 mg
Buffer	0.2 μm filtered solution in PBS
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

BACKGROUND

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Introduction	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.
Keywords	SARS-CoV-2 NP; SARS-CoV-2 Nucleoprotein; SARS-CoV-2; SARS-CoV; 2019-nCoV; Coronavirus; Human Coronavirus; HCoV; SARS; SARS CoV; COVID-19

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