



# Mouse anti-MERS-CoV NP monoclonal antibody, clone MN2167 (CABT-RM311)

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

## PRODUCT INFORMATION

<b>Specificity</b>	MERS & SARS Coronavirus Nucleoprotein (NP), No reactivity with Coronavirus OC43, NL63, 229E
<b>Target</b>	MERS & SARS Coronavirus
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	MERS-CoV, SARS-CoV, SARS-CoV-2
<b>Clone</b>	MN2167
<b>Conjugate</b>	unconjugated
<b>Applications</b>	ELISA, IF
<b>Size</b>	1 mg
<b>Buffer</b>	10 mM Phosphate Buffered Saline, pH 7.2
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.

## BACKGROUND

<b>Introduction</b>	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
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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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**Keywords**

MERS & SARS-CoV NP;MERS;SARS;MERS-CoV;SARS-CoV;MERS-CoV NP;SARS CoV-NP;MERS Nucleocapsid Protein;SARS Nucleocapsid Protein;MERS-CoV Nucleocapsid Protein;SARS-CoV Nucleocapsid Protein;Coronavirus;HCoV

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