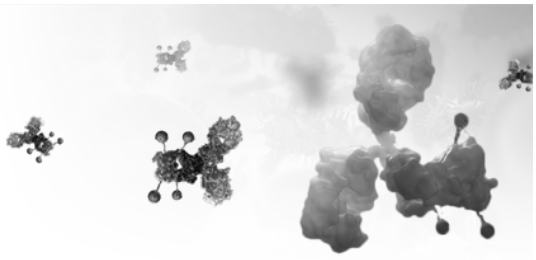

Mouse anti-MERS-CoV NP monoclonal antibody, clone MN2168 (CABT-RM312)

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

PRODUCT INFORMATION

Specificity	MERS & SARS Coronavirus Nucleoprotein (NP), No reactivity with Coronavirus OC43, NL63, 229E
Target	MERS & SARS Coronavirus
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	MERS-CoV, SARS-CoV, SARS-CoV-2
Clone	MN2168
Conjugate	unconjugated
Applications	ELISA, IF
Size	1 mg
Buffer	10 mM Phosphate Buffered Saline, pH 7.2
Preservative	0.1% Sodium Azide
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.

BACKGROUND

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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	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	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;Coronavius;HCoV

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