



# Anti-MERS-CoV Nucleoprotein (N-terminal) polyclonal antibody (CABT-B1963)

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

## PRODUCT INFORMATION

<b>Specificity</b>	The antibody reacts with MERS-CoV (NCoV / Novel coronavirus) Nucleocapsid protein (NP protein)
<b>Target</b>	MERS-CoV Nucleoprotein
<b>Immunogen</b>	A synthetic peptide corresponding to the N-terminus of MERS-CoV (NCoV / Novel coronavirus) Nucleocapsid Protein (NP protein).
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	MERS-CoV
<b>Purification</b>	Antigen affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ELISA, IHC, IF, IP
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	PBS with 5% trehalose
<b>Preservative</b>	None
<b>Storage</b>	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.

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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## BACKGROUND

### Introduction

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronaviruses primarily cause respiratory and enteric diseases in mammals and birds. Coronaviruses can cause a range of symptoms varying from mild symptoms such as the common cold to more serious respiratory illnesses. They primarily cause respiratory and enteric diseases in mammals and birds. Coronavirus symptoms include rhinorrhea, sneezing, cough, nasal obstruction, bronchitis and so on. There are three main groups of coronaviruses: alpha, beta, and gamma. Proteins that contribute to the overall structure of all coronaviruses are the spike (S), envelope (E), membrane (M) and nucleoprotein (N). 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.

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