Datasheet for ABIN7198835

HCoV-OC43 N Protein (His tag)

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Overview

Quantity:	100 µg
Target:	HCoV-OC43 N
Origin:	Human Coronavirus OC43 (HCoV-OC43)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCoV-OC43 N protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human coronavirus (HCoV-OC43) Nucleoprotein / NP Protein (His Tag)
Sequence:	Met1-Ile448
Characteristics:	A DNA sequence encoding the Human coronavirus (HCoV-OC43) Nucleoprotein (YP_009555245.1) (Met1-Ile448) was expressed with a polyhistide tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin Level:	Please contact us for more information.

Target Details

Target:	HCoV-OC43 N
Alternative Name:	Coronavirus OC-43 Nucleoprotein (HCoV-OC43 N Products)
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

Target Details

	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.
Molecular Weight:	50.43KDa.
NCBI Accession:	YP_009555245

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 40 mM PB, 500 mM NaCl, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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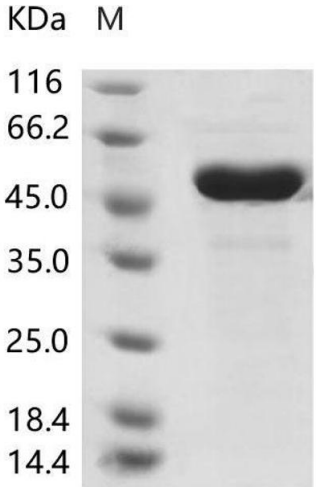

Western Blotting

Image 1.

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