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Datasheet for ABIN7197804

SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N)

Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant SARS-CoV-2 Nucleocapsid Protein(Active)
Sequence:	Met1-Ala419
Characteristics:	Recombinant 2019-nCoV Nucleocapsid Protein is produced by our E.coli expression system and the target gene encoding Met1-Ala419 is expressed with a 6His tag at the N-terminus.
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Immobilized 2019-nCoV NP Antibody (6G9)at 5µg/ml (100 µl/well) can bind 2019-nCoV Nucleocapsid Protein-His(PKSV030291). The ED50 of PKSV030291 is less than 51.29 ng/ml.

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N Products)
Target Type:	Viral Protein

Target Details

Background: Background: 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. N protein packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Synonym: SARS-CoV-2 coronavirus NP Protein, SARS-CoV-2 np Protein, SARS-CoV-2 novel coronavirus Nucleoprotein Protein

Molecular Weight: 49.4kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 300 mM NaCl, 1 mM EDTA, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
