

Datasheet for ABIN7566325 SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (AA 1-419) (His tag)



Overview

00010100	
Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Protein Characteristics:	AA 1-419
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Nucleocapsid protein is labelled with His tag.
Product Details	
Purpose:	SARS-CoV-2 Nucleocapsid Protein (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	SARS-CoV-2 Nucleocapsid protein (aa 1-419) is fused at the N-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Target Details	
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N Products)
Target Type:	Viral Protein
Background:	2019-nCoV N Protein SARS-CoV-2 shares 79.5 % sequence identity with SARS-CoV and is 96.2 % identical at the

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7566325 | 04/22/2025 | Copyright antibodies-online. All rights reserved. genome level to the bat coronavirus BatCoV RaTG133, suggesting it had originated in bats. The coronaviral genome encodes four major structural proteins: the Spike (S) protein, Nucleocapsid (N) protein, Membrane/Matrix (M) protein and the Envelope (E) protein. The SARS Envelope (E) protein contains a short palindromic transmembrane helical hairpin that seems to deform lipid bilayers, which may explain its role in viral budding and virion envelope morphogenesis. The SARS Membrane/Matrix (M) protein is one of the major structural viral proteins. It is an integral membrane protein involved in the budding of the viral particles and interacts with SARS Spike (S) protein and the Nucleocapsid (N) protein. The CoV Spike (S) protein assembles as trimer and plays the most important role in viral attachment, fusion and entry. It is composed of a short intracellular tail, a transmembrane anchor and a large ectodomain that consists of a receptor binding S1 subunit (RBD domain) and a membrane-fusing S2 subunit. Sequence analysis of the SARS-CoV-2 S protein genome showed that it was only 75 % identical with the SARS-CoV S protein. However, analysis of the receptor binding motif (RBM) in the S protein showed that most of the amino acid residues essential for receptor binding were conserved between SARS-CoV and SARS-CoV-2, suggesting that the 2 CoV strains use the same host receptor for cell entry, the receptor angiotensin-converting enzyme 2 (ACE2). The N protein contains two domains, both of them bind the virus RNA genome via different mechanisms.

Molecular Weight:

~47kDa

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	1 mg/mL after reconstitution
Concentration:	1 mg/mL
Buffer:	Contains PBS.
Handling Advice:	After opening, prepare aliquots and store at -20 °C.Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.For maximum product recovery after thawing, centrifuge the vial before opening the cap.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C

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Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

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