Datasheet for ABIN7199332

SARS-CoV-2 Nucleocapsid Protein (SARS-CoV-2 N) (BA.2 - Omicron, BA.3 - Omicron) (His-Avi Tag,Biotin)

Go to Product page

Overview

Quantity:	200 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Protein Characteristics:	BA.2 - Omicron, BA.3 - Omicron
Origin:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Omicron
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Nucleocapsid protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated SARS-CoV-2 Nucleocapsid protein, His,Avitag™ (BA.2*&BA.3*/Omicron)
Sequence:	Met 1 - Ala 419
Characteristics:	Biotinylated SARS-CoV-2 Nucleocapsid protein, His,Avitag™ (BA.2*&BA.3*/Omicron) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (Accession # QHO62115.1 (P13L, ERS31-33del, R203K, G204R, S413R). The nucleocapsid mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.2, GISAID clade: GRA, Nextstrain clade: 21L & Pango lineage: BA.3, GISAID clade: GRA, Nextstrain clade: 21M).
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)

Copyright antibodies-online. All rights reserved.

Target Details

Alternative Name:	SARS-CoV-2 Nucleocapsid protein (SARS-CoV-2 N Products)
Target Type:	Viral Protein
Background:	Synonyms: Nucleocapsid protein,NP,Protein N, Nucleocapsid (N) protein is the most abundant protein found in coronavirus. CoV N protein is a highly immunogenic phosphoprotein important for viral genome replication and modulation of cell signaling pathways. It was first identified by a research team while they were screening for ADP-ribosylated proteins during coronavirus (CoV) infection (Grunewald M. E., et al. 2017, Virology, 517: 62-68). The array of diverse functional activities accommodated in N protein makes it more than a structural protein but also an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, N protein of coronavirus is chosen as a diagnostic tool.
Molecular Weight:	48.8 kDa

Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 48.8 kDa. The protein migrates as 33 kDa and 50-60 kDa under reducing (R) condition .
Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, 0.2M Arginine, pH 7.4

Handling

Storage:	-20 °C
Storage Comment:	-20°C

 Copyright antibodies-online. All rights reserved.