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Datasheet for ABIN7564001

**Nlrp9b Protein (AA 1-1003) (His tag)**

## Overview

Quantity:	1 mg
Target:	Nlrp9b (NLRP9B)
Protein Characteristics:	AA 1-1003
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nlrp9b protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Nlrp9b Protein expressed in mammalian cells.
Sequence:	MAGSSGYGLL KLLQKLSDEE FQRFKELLRE EPEKFKLKPI SWTKIENSSK ESLVTLNTH YPGQAWNMMML SLFLQVNRED LSIMAQKKKR HKQTKYKKFM KTTFERIWTLE TNTHIPDRN YHLIVEVQYK ALQEIFDSES EPVTAIVAGT TGEKTTFLR KAMLDWASGV LLQNRFAQYVF FFSVFSLNNT TELSLAELIS STLPESSETV DDILSDPKRI LFILDGFDYL KFDLELRTNL CNDWRKRLPT QIVLSSLLQK IMLPGCSLLL ELGQISVPKI RHLLKYPRVI TMQGFSESV EFYCMSFFDN QRGIEVAENL RNNEVLHLCS NPYLCWFMFCS CLKWQFDREE EGYFKAKTDA AFFTNFMVSA FKSTYAHSPS KQNRARLKTLE CTLAVEGMWK ELVFDSLEL RRGISESDK AVWLKMQFLQ THGNHTVFYH PTLQSYFAAM FYFLKQDKDI CVPVIGSIPQ LLGNMYARGQ TQWLQLGTFL FGLINEQVAA LLQPCFGFIQ PIYVRQEIIC YFKCLGQQEC NEKLERSQTL FSCLRDSQEE RFVRQVVDLL EEITVDISS DVLSVTAYAL QKSSKLLKHL LHIQKTVFSE IYCPDHCKTR TSIKRRNTA EYWKTLGIF CNLYVLDLDS CQFNKRAIQD LCNSMSPTPT

## Product Details

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VPLTAFKLQS LSCSFMADFG DGSLFHTLLQ LPHLKYLNLV GTYLSMDVTE KLCAALRCSA  
CRVEELLGK CGISSKACGI IAISLINSKV KHLNLSVENPL KNKGVMVSLCE MLKDPSCVLQ  
SLMLSYCCLT FIACGHLYEA LLSNKHLSLL DLGNSFLEDT GVNLLCEALK DPNCTKLKELW  
LPGCFLTSQC CEEISAVLIC NRNLKTLKLG NNNIQDTGVR QLCEALSHPN CNLECLGLDL  
CEFTSDCKD LALALTCTKT LNSLNLDWKT LDHSGLVVLC EALNHKRCNL KMLGLDKSAF  
SEESQTLQD VEKKNLNI LHPWFEAER NKRGTRLVWN SRN **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

Nlrp9b (NLRP9B)

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### Alternative Name:

Nlrp9b

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### Background:

NACHT, LRR and PYD domains-containing protein 9B (NALP-delta),FUNCTION: As the sensor component of the NLRP9 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens, including rotavirus, initiates the formation of the inflammasome polymeric complex, made of NLRP9, PYCARD and CASP1. Recruitment of

## Target Details

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proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and release in the extracellular milieu. The active cytokines stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. NLRP9 inflammasome activation may be initiated by DHX9 interaction with viral double-stranded RNA (dsRNA), preferentially to short dsRNA segments. {ECO:0000269|PubMed:28636595}.

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Molecular Weight: 114.8 kDa

UniProt: [Q66X22](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months