

Datasheet for ABIN7562128

NLRP12 Protein (AA 1-1054) (His tag)



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Overview

Quantity:	1 mg
Target:	NLRP12
Protein Characteristics:	AA 1-1054
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP12 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Nlrp12 Protein expressed in mammalian cells.
Sequence:	<p>MLPSTARDGL YRLSTYLEEL EAGELKKFKL FLGIAEDLSQ DKIPWGRMEK AGPLEMAQLM</p> <p>VAHMGTTREAW LLALSTFQRI HRKDLWERGQ GEDLVRVTPN NGLCLFESQS ACPLDVSPNA</p> <p>PRKDLQTTYK DYVRRKFQLM EDNRNLGEC VNLSNRYTRL LLVKEHSNPI WTQQKFVDVE</p> <p>WERSRTRRHQ TSPIQMETLF EPDEERPEPP HTVVLQGAAG MGKSMLAHKV MLDWADGRLF</p> <p>QGRFDYVFIY SCRELNRSHT QCSVQDLISS CWPERGISLE DLMQAPDRLL FIIDGFDKLH</p> <p>PSFHDAQGPW CLCWECKQPT EVLLGSLIRR LLLPQVSLLI TTRPCALEKL HGLLEHPRHV</p> <p>EILGFSEEAR KEYFYRYFHN TGQASRVLSF LMDYEPLFTM CFVPMVSWVV CTCLKQQLES</p> <p>GELLRQTPRT TTAVYMFYLL SLMQPKPGTP TFKVPANQRG LVSLAAEGLW NQKILFDEQD</p> <p>LGKHGLDGAD VSTFLNVNIF QKGKICEKFY SFIHLSFQEF FAAMYCALNG REAVRRALAE</p> <p>YGFSEFNFLA LTVHFLFGLL NEEMRCYLER NLGWSISPQV KEEVLAWIQN KAGSEGSTLQ</p> <p>HGSLELLSCL YEVEEDFIQ QALSHFQVWV VRSISTKMEH MVCSFCARYC RSTEVHLHLG</p>

SAYSTGMEDD PPEPSGVQTTQ STYLQERNML PDVYSAYLSA AVCTNSNLIE LALYRNALGS
QGVRLLCQGL RHASCKLQNL RLKRCQISGS ACQDLAAAVI ANRNLIRLDL SDNSIGVPGL
ELLCEGLQHP RCRLQMIQLR KCLLEAAAGR SLASVLSNNS YLVELDLTGN PLEDGLKLL
CQGLRHPVCR LRTLWLKICH LGQASCEDLA STLMKNQSLL ELDLGLNDLG DSGVLLLCGL
LSHPDCKLQT LRLGICRLGS VACVGIASVL QVNTCLQELD LSFNDLGDRG LQLLGEGLRH
QTCRLQKLWL DNCGLTSKAC EDLSSILGIS QTLHELYLTN NALGDTGVCL LCKRLRHPGC
KLRVLWLFGM DLNKKTHRRM AALRVTKPYL DIGC

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.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	NLRP12
Alternative Name:	Nlrp12 (NLRP12 Products)
Background:	NACHT, LRR and PYD domains-containing protein 12 (Monarch-1) (PYRIN-containing APAF1-like protein 7) (PYPAP7),FUNCTION: Plays an essential role as a potent mitigator of inflammation (PubMed:26521018, PubMed:30559449). Primarily expressed in dendritic cells

Target Details

and macrophages, inhibits both canonical and non-canonical NF-kappa-B and ERK activation pathways (PubMed:30559449). Functions as a negative regulator of NOD2 by targeting it to degradation via the proteasome pathway (PubMed:30559449). In turn, promotes bacterial tolerance (PubMed:30559449). Inhibits also the RIGI-mediated immune signaling against RNA viruses by reducing the E3 ubiquitin ligase TRIM25-mediated 'Lys-63'-linked RIGI activation but enhancing the E3 ubiquitin ligase RNF125-mediated 'Lys-48'-linked RIGI degradation (By similarity). Acts also as a negative regulator of inflammatory response to mitigate obesity and obesity-associated diseases in adipose tissue (PubMed:30212649).

{ECO:0000250|UniProtKB:P59046, ECO:0000269|PubMed:26521018, ECO:0000269|PubMed:30212649, ECO:0000269|PubMed:30559449}.

Molecular Weight: 119.3 kDa

UniProt: [E9Q5R7](#)

Pathways: [Positive Regulation of Endopeptidase Activity, Inflammasome](#)

Application Details

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.

Restrictions: For Research Use only

Handling

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