

Datasheet for ABIN3131152

NLRP12 Protein (AA 1-1054) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NLRP12
Protein Characteristics:	AA 1-1054
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP12 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLPSTARDGL YRLSTYLEEL EAGELKKFKL FLGIAEDLSQ DKIPWGRMEK AGPLEMAQLM</p> <p>VAHMGTTREAW LLALSTFQRI HRKDLWERGQ GEDLVRVTPN NGLCLFESQS ACPLDVSPNA</p> <p>PRKDLQTTYK DYVRRKFQLM EDNRNARLGEC 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 RSTEVHLHLHG</p>

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

Sequence without tag. The proposed Strep-Tag is based on experience s 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:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	NLRP12
Alternative Name:	Nlrp12 (NLRP12 Products)
Background:	<p>NACHT, LRR and PYD domains-containing protein 12 (Monarch-1) (PYRIN-containing APAF1-like protein 7) (PYPAF7),FUNCTION: Plays an essential role as a potent mitigator of inflammation (PubMed:26521018, PubMed:30559449). Primarily expressed in dendritic cells 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).</p> <p>{ECO:0000250 UniProtKB:P59046, ECO:0000269 PubMed:26521018, ECO:0000269 PubMed:30212649, ECO:0000269 PubMed:30559449}.</p>
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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months