antibodies

Datasheet for ABIN3093985 NLRP9 Protein (AA 1-991) (Strep Tag)





Overview

Quantity:	1 mg
Target:	NLRP9
Protein Characteristics:	AA 1-991
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAESFFSDFG LLWYLKELRK EEFWKFKELL KQPLEKFELK PIPWAELKKA SKEDVAKLLD
	KHYPGKQAWE VTLNLFLQIN RKDLWTKAQE EMRNKLNPYR KHMKETFQLI WEKETCLHVP
	EHFYKETMKN EYKELNDAYT AAARRHTVVL EGPDGIGKTT LLRKVMLDWA EGNLWKDRFT
	FVFFLNVCEM NGIAETSLLE LLSRDWPESS EKIEDIFSQP ERILFIMDGF EQLKFNLQLK
	ADLSDDWRQR QPMPIILSSL LQKKMLPESS LLIALGKLAM QKHYFMLRHP KLIKLLGFSE
	SEKKSYFSYF FGEKSKALKV FNFVRDNGPL FILCHNPFTC WLVCTCVKQR LERGEDLEIN
	SQNTTYLYAS FLTTVFKAGS QSFPPKVNRA RLKSLCALAA EGIWTYTFVF SHGDLRRNGL
	SESEGVMWVG MRLLQRRGDC FAFMHLCIQE FCAAMFYLLK RPKDDPNPAI GSITQLVRAS
	VVQPQTLLTQ VGIFMFGIST EEIVSMLETS FGFPLSKDLK QEITQCLESL SQCEADREAI
	AFQELFIGLF ETQEKEFVTK VMNFFEEVFI YIGNIEHLVI ASFCLKHCQH LTTLRMCVEN
	IFPDDSGCIS DYNEKLVYWR ELCSMFITNK NFQILDMENT SLDDPSLAIL CKALAQPVCK
	LRKLIFTSVY FGHDSELFKA VLHNPHLKLL SLYGTSLSQS DIRHLCETLK HPMCKIEELI

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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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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.
- · The protein's absorbance will be measured in several dilutions and is measured against its

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• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	NLRP9
Alternative Name:	NLRP9 (NLRP9 Products)
Background:	NACHT, LRR and PYD domains-containing protein 9 (Nucleotide-binding oligomerization domain protein 6) (PYRIN and NACHT-containing protein 12),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 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:0000269JPubMed:28636595}.
Molecular Weight:	113.3 kDa
UniProt:	Q7RTR0
Pathways:	Inflammasome

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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.
Comment:	 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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expine Data:	Liplimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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