Datasheet for ABIN7563737

NLRC4 Protein (AA 1-1024) (His tag)

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Overview

Quantity:	1 mg
Target:	NLRC4
Protein Characteristics:	AA 1-1024
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRC4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Nlrc4 Protein expressed in mammalien cells.
Sequence:	MNFIRNNRRA LIQRMGLTVT KQICDDLFAL NVLNNQEANV IYCEPLEQEA ARKIIHMTMQ KGSAACNLFL KSLENWDYFV YQDLTGQNLS YQVTEEDLNV LAQNLKDLYN SPAFLNFYPL GEDIDIIFNL EKTFTEPIMW KKDHRHHRVE QLTLGSLLEA LKSPCLIEGE SGKGKSTLLQ RIAMLWASGG CRALKGFRLV FFIHLRSARG GLFETLYDQL LNIPDFISKP TFKALLLKLH KEVLFLLDGY NEFHPQNCPE IEALIKENHR FKNMVIVTTT TECLRHIRHV GALTAEVGDM TEDSAKDLIE AVLVPDQVER LWAQIQESRC LRNLMKTPLF VVITCAIQMG RQEFQAHTQT MLFQTFYDLL IQKNSHRYRG GASGDFARSL DYCGDLALEG VFAHKFDFEP EHGSSMNEDV LVTIGLLCKY TAQRLKPTYK FFHKSFQEYT AGRRLSSLLT SKEPEEVSKG NSYLNKMVSI SDITSLYGNL LLYTCGSSTE ATRAVMRHLA MVYQHGSLQG LSVTKRPLWR QESIQSLRNT TEQDVLKAIN VNSFVECGIN LFSESMSKSD LSQEFEAFFQ GKSLYINSEN IPDYLFDFFE YLPNCASALD FVKLDFYERA TESQDKAEEN VPGVHTEGPS ETYIPPRAVS LFFNWKQEFK

Product Details

	TLEVTLRDIN KLNKQDIKYL GKIFSSATNL RLHIKRCAAM AGRLSSVLRT CKNMHTLMVE ASPLTTDDEQ YITSVTGLQN LSIHRLHTQQ LPGGLIDSLG NLKNLERLIL DDIRMNEEDA KNLAEGLRSL KKMRLLHLTH LSDIGEGMDY IVKSLSEESC DLQEMKLVAC CLTANSVKVL AQNLHNLIKL SILDISENYL EKDGNEALQE LIGRLGVLGE LTTLMLPWCW DVHTSLPKLL KQLEGTPGLA KLGLKNWRLR DEEIKSLGEF LEMNPLRDLQ QLDLAGHCVS SDGWLYFMNV FENLKQLVFF DFSTEEFLPD AALVRKLSQV LSKLTLLQEV KLTGWEFDDY DISAIKGTFK LVTA **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:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	NLRC4
Alternative Name:	Nlrc4 (NLRC4 Products)
Background:	NLR family CARD domain-containing protein 4 (Caspase recruitment domain-containing protein 12) (Ice protease-activating factor) (Ipaf),FUNCTION: Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine

Target Details

	production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria. It senses pathogenic proteins of the type III secretion system (T3SS) and type IV secretion system (T4SS) such as flagellin and PrgJ-like rod proteins via the Naip proteins (Naip1, Naip2 or Naip5): specific Naip proteins recognize and bind pathogenic proteins, driving assembly and activation of the NLRC4 inflammasome. The NLRC4 inflammasome senses Gram-negative bacteria such as L.pneumophila and P.aeruginosa, enteric pathogens S.typhimurium (Salmonella) and S.flexneri and fungal pathogen C.albicans. In intestine, the NLRC4 inflammasome is able to discriminate between commensal and pathogenic bacteria and specifically drives production of interleukin-1 beta (IL1B) in response to infection by Salmonella or P.aeruginosa. In case of L.pneumophila infection the inflammasome acts by activating caspase-7. {ECO:0000269|PubMed:15190255, ECO:0000269|PubMed:16648852, ECO:0000269|PubMed:16648853, ECO:0000269|PubMed:18070936, ECO:0000269|PubMed:19343209, ECO:0000269|PubMed:20133635, ECO:0000269|PubMed:20603313, ECO:0000269|PubMed:21874021, ECO:0000269|PubMed:21918512, ECO:0000269|PubMed:22174673, ECO:0000269|PubMed:22231517, ECO:0000269|PubMed:22484733, ECO:0000269|PubMed:22547706, ECO:0000269|PubMed:22885697, ECO:0000269|PubMed:29146805, ECO:0000269|PubMed:29182158}.
Molecular Weight:	116.7 kDa
UniProt:	Q3UP24
Pathways:	Activation of Innate immune Response, 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months