

Datasheet for ABIN7554754

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



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Overview

Quantity:	1 mg
Target:	NLRC4
Protein Characteristics:	AA 1-1024
Origin:	Human
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 mammalian cells.
Sequence:	<p>MNFIKDNSRA LIQRMGMTVI KQITDDLFVW NVLNREEVNI ICCEKVEQDA ARGIIHMILK</p> <p>KGSESCNLF L KSLKEWNYPL FQDLNGQSLF HQTSEGLDD LAQDLKDLYH TPSFLNFYPL</p> <p>GEDIDIIFNL KSTFTEPVLW RKDQHHRVE QLTLNGLLQA LQSPCIEGE SGKGKSTLLQ</p> <p>RIAMLWGS GK CKALTKFKFV FFLRLSRAQG GLFETLCDQL LDIPGTIRKQ TFMAMLLKLR</p> <p>QRVFLLDGY NEFKPQNCPE IEALIKENHR FKNMVIVTTT TECLRHIRQF GALTAEVGDM</p> <p>TEDSAQALIR EVLIKELAEG LLLQIQKSRC LRNLTKPLF VVITCAIQMG ESEFHSHTQT</p> <p>TLFHTFYDLL IQKNKHKHKG VAASDFIRSL DHCGDLAEG VFSHKDFEL QDVSSVNEDV</p> <p>LLTTGLLCKY TAQRFKPKYK FFHKSFEY AGRRLSSLLT SHEPEEVT KG NGYLQKMVSI</p> <p>SDITSTYSSL LRYTCGSSVE ATRAVMKHLA AVYQHGCLLG LSIKRPLWR QESLQSVKNT</p> <p>TEQEILKAIN INSFVECGIH LYQUESTSKSA LSQEFEAFFQ GKSLYINSGN IPDYLFDFFE</p> <p>HLPNCASALD FIKLDFYGGA MASWEKAAED TGGIHMEEAP ETYIPSRAVS LFFNWKQEFR</p>

TLEVTLRDFS KLNKQDIRYL GKIFSSATSL RLQIKRCAGV AGSLSLVLST CKNIYSLMVE
ASPLTIEDER HITSVTNLKT LSIHDLQNQR LPGGLTDSLQ NLKNLTKLIM DNIKMNEEDA
IKLAEGLKNL KKMCLFHLTH LSDIGEGMDY IVKSLSSEPC DLEEIQLVSC CLSANAVKIL
AQNLHNLVKL SILDLSENYL EKDGNALHE LIDRMNVLEQ LTALMLPWGC DVQGSLSLL
KHLEEVQLV KLGLKNWRLT DTEIRILGAF FGKNPLKNFQ QLNLAGNRVS SDGWLAFMGV
FENLKQLVFF DFSTKEFLPD PALVRKLSQV LSKLTFLQEA RLVGWQFDDD DLSVITGAFK 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:	<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
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Grade:	custom-made
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Target Details

Target:	NLRC4
Alternative Name:	NLRC4 (NLRC4 Products)
Background:	NLR family CARD domain-containing protein 4 (CARD, LRR, and NACHT-containing protein) (CED-4-like protein Clan) (Caspase recruitment domain-containing protein 12) (Ice protease-activating factor) (Ipafl),FUNCTION: Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an

Target Details

inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis (PubMed:15107016). The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria (By similarity). {ECO:0000250|UniProtKB:Q3UP24, ECO:0000269|PubMed:15107016}.

Molecular Weight: 116.2 kDa

UniProt: [Q9NPP4](#)

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 Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months