Datasheet for ABIN7563811

NLRC3 Protein (AA 1-1064) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	NLRC3
Protein Characteristics:	AA 1-1064
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRC3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nlrc3 Protein expressed in mammalian cells.
Sequence:	MRRRYSHDPP GSFRETKVFG FRGEYGCKAL VDLLAGKGSQ LLQVRDKMPD SPLGSQSNES RIPKHSEALL SRVGNDPELG SPSHRLASLM LVEGLTDLQL KEHDFTQVEA TRGVWHPARV ITLDRLFLPL SRVSIPPRVS LTIGVAGVGK TTLVRHFVHC WARGQVGKGF SRVLPLTFRD LNTYEKLSAD RLIQSIFSSI GEASLVATAP DRVLLVLDGL DECKTPLEFS NTMACSDPKK EIQVDHLITN IIRGNLFPEI SVWITSRPSA AGQIPGGLVD RMTEIRGLTE EEIKVCLEQM FPEEQNLLGQ VLSQVQANRA LYLMCTVPAF CRLTGLALGH LYRTRLAVQD IELPLPQTLC ELYSWYFRMA LGGEGQDKEK VSPRIKQVTQ GARKMVGTLG RLAFHGLVKK KYVFYEQDMK AFGVDLALLQ NTLCSCLLQR EETLASSVAY CFIHLSLQEF VAATYYYSAS KRAIFDLFTE SGMSWPRLGF LAHFRCAAQR ATQAKDGRLD VFLRFLSGLL SPRVNTLLAG SLLSQGEHQS YRDQVAEVLQ GFLHPDAAVC ARAINVLYCL SELRHTELAC SVEEAMRSGT LAGMTSPSHR TALAYLLQMS DICSPEADFS LCLSQHVLQS LLPQLLYCQS LRLDNNQFQD PVMELLGSVL SGKDCRIRKI SLAENQIGNK GAKALARSLL VNRSLITLDL RSNSIGPPGA KALADALKIN

Product Details

	RTLTSLSLQS NVIKDDGVMC VAEALVSNQT ISMLQLQKNL IGLIGAQQMA DALKQNRSLK ALMFSSNTIG DRGAIALAEA LKVNQILENL DLQSNSISDM GVTVLMRALC SNQTLSSLNL RENSISPEGA QALTQALCRN NTLKHLDLTA NLLHDRGAQA IAVAVGENHS LTHLHLQWNF IQAGAARALG QALQLNRTLT TLDLQENAIG DEGASSVAGA LKVNTTLIAL YLQVASIGSQ GAQALGEALT VNRTLEILDL RGNDVGAAGA KALANALKLN SSLRRLNLQE NSLGMDGAIF VASALSENHG LHHINLQGNP IGESAARMIS EAIKTNAPTC TVEI **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • 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). 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NLRC3
Alternative Name:	Nlrc3 (NLRC3 Products)
Background:	Protein NLRC3,FUNCTION: Negative regulator of the innate immune response. Attenuates signaling pathways activated by Toll-like receptors (TLRs) and the DNA sensor

Target Details

	STING/TMEM173 in response to pathogen-associated molecular patterns, such as intracellular poly(dA:dT), but not poly(I:C), or in response to DNA virus infection, including that of Herpes simplex virus 1 (HSV1) (PubMed:22863753, PubMed:24560620). May affect TLR4 signaling by acting at the level of TRAF6 ubiquitination, decreasing the activating 'Lys-63'-linked ubiquitination and leaving unchanged the degradative 'Lys-48'-linked ubiquitination (PubMed:22863753). Inhibits the PI3K-AKT-mTOR pathway possibly by directly interacting with the posphatidylinositol 3-kinase regulatory subunit p85 (PIK3R1/PIK3R2) and disrupting the association between PIK3R1/PIK3R2 and the catalytic subunit p110 (PIK3CA/PIK3CB/PIK3CD) and reducing PIK3R1/PIK3R2 activation. Via its regulation of the PI3K-AKT-mTOR pathway, controls cell proliferation, predominantly in intestinal epithelial cells (PubMed:27951586). May also affect NOD1- or NOD2-mediated NF-kappa-B activation (By similarity). Might also affect the inflammatory response by preventing NLRP3 inflammasome formation, CASP1 cleavage and IL1B maturation (By similarity). {ECO:0000250|UniProtKB:Q7RTR2, ECO:0000269|PubMed:22863753, ECO:0000269|PubMed:24560620, ECO:0000269|PubMed:27951586}.
Molecular Weight:	116.0 kDa
UniProt:	Q5DU56

Application Details

Application Notes:	We expect the protein to work for functional studies. 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