Datasheet for ABIN7549487

MLKL Protein (AA 1-471) (His tag)

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Overview

Quantity:	1 mg
Target:	MLKL
Protein Characteristics:	AA 1-471
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MLKL protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MLKL Protein expressed in mammalien cells.
Sequence:	MENLKHIITL GQVIHKRCEE MKYCKKQCRR LGHRVLGLIK PLEMLQDQGK RSVPSEKLTT AMNRFKAALE EANGEIEKFS NRSNICRFLT ASQDKILFKD VNRKLSDVWK ELSLLLQVEQ RMPVSPISQG ASWAQEDQQD ADEDRRAFQM LRRDNEKIEA SLRRLEINMK EIKETLRQYL PPKCMQEIPQ EQIKEIKKEQ LSGSPWILLR ENEVSTLYKG EYHRAPVAIK VFKKLQAGSI AIVRQTFNKE IKTMKKFESP NILRIFGICI DETVTPPQFS IVMEYCELGT LRELLDREKD LTLGKRMVLV LGAARGLYRL HHSEAPELHG KIRSSNFLVT QGYQVKLAGF ELRKTQTSMS LGTTREKTDR VKSTAYLSPQ ELEDVFYQYD VKSEIYSFGI VLWEIATGDI PFQGCNSEKI RKLVAVKRQQ EPLGEDCPSE LREIIDECRA HDPSVRPSVD EILKKLSTFS K **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.**

Product Details

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:	MLKL
Alternative Name:	MLKL (MLKL Products)
Background:	Mixed lineage kinase domain-like protein (hMLKL),FUNCTION: Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process (PubMed:22265413, PubMed:22265414, PubMed:22421439, PubMed:24316671). Does not have protein kinase activity (PubMed:22265413, PubMed:22265414, PubMed:22421439, PubMed:24316671). Activated following phosphorylation by RIPK3, leading to homotrimerization, localization to the plasma membrane and execution of programmed necrosis characterized by calcium influx and plasma membrane damage (PubMed:22265413, PubMed:22265414, PubMed:22421439, PubMed:24316671). In addition to TNF-induced necroptosis, necroptosis can also take place in the nucleus in response to orthomyxoviruses infection: following activation by ZBP1, MLKL is phosphorylated by RIPK3 in the nucleus, triggering disruption of the nuclear envelope and leakage of cellular DNA into the cytosol.following ZBP1 activation, which senses double-stranded Z-RNA structures, nuclear RIPK3 catalyzes phosphorylation and activation of MLKL, promoting disruption of the nuclear envelope and leakage of cellular DNA into the cytosol (By

Target Details

	similarity). Binds to highly phosphorylated inositol phosphates such as inositolhexakisphosphate (InsP6) which is essential for its necroptotic function (PubMed:29883610). {ECO:0000250|UniProtKB:Q9D2Y4, ECO:0000269|PubMed:22265413, ECO:0000269|PubMed:22265414, ECO:0000269|PubMed:22421439, ECO:0000269|PubMed:24316671, ECO:0000269|PubMed:29883610}.
Molecular Weight:	54.5 kDa
UniProt:	Q8NB16

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