MLKL Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MLKL, Blocking Peptide
Full Product Name	MLKL Blocking Peptide
Product Gene Name	MLKL blocking peptide
Product Synonym Names	9130019I15Rik; FLJ34389; hMLKL; Mixed lineage kinase domain like; Mixed lineage kinase domain like protein; Mixed lineage kinase domain like pseudokinase; Mixed lineage kinase domain-like protein; Mlkl; MLKL_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MLKL peptide (MBS9618929) is used for blocking the activity of MLKL antibody (MBS9611208)
Molecular Weight	54,479 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (74705753..74734789, complement). Location: 16q23.1
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MLKL blocking peptide	Blocking/Control
Related Product Information for MLKL blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of MLKL blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MLKL purchase	MBS9618929 is a blocking peptide targeting MLKL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLKL. It may not necessarily be applicable to this product.

NCBI GI #	215820622
NCBI GeneID	197259
NCBI Accession #	NP_001135969.1
UniProt Primary Accession #	Q8NB16
UniProt Secondary Accession #	Q8N6V0; A6NCE4
UniProt Related Accession #	Q8NB16

GenBank Nucleotide #	NP_001135969.1
NCBI Official Full Name	mixed lineage kinase domain-like protein isoform 2
NCBI Official Synonym Full Names	mixed lineage kinase domain-like
NCBI Official Symbol	MLKL
UniProt Protein Name	Mixed lineage kinase domain-like protein
Protein Family	Mixed lineage kinase domain-like protein
UniProt Gene Name	MLKL
UniProt Entry Name	MLKL_HUMAN
NCBI Protein Information	mixed lineage kinase domain-like protein
NCBI Summary for MLKL	This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3), which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015]
UniProt Comments for MLKL	MLKL: Belongs to the protein kinase superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; Protein kinase, TKL; Protein kinase, Ser/Thr (non-receptor); TKL group; TKL-Unique family Chromosomal Location of Human Ortholog: 16q23.1 Cellular Component: cytoplasm; plasma membrane Molecular Function: protein binding; protein complex binding; protein kinase binding; ATP binding; protein kinase activity Biological Process: protein amino acid phosphorylation
Research Articles on MLKL	**1.** study suggests that MLKL is a key RIP3 downstream component of TNF-induced necrotic cell death
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