

Recombinant Full Length Human MLKL Protein, GST-tagged

Cat. No. MLKL-6980HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length MLKL(1 a.a. - 471 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	471 amino acids
Description	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.
Molecular Mass	80.9 kDa
AA Sequence	MENLKHIIITLGQVIHKRCEEMKYCKKQCRRLGHRVLGLIKPLEMLQDQGKRSVPSEK LTTAMNRFKAALEEANGE IEKFSNRSNICRFLTASQDKILFKDVNRKLSDVWKELSL LQVEQRMPVSPISQGASWAQEDQQDADEDRRAFQM LRRDNEKIEASLRRLEINMK EIKETLRQYLPPKCMQEIPQEIQEIKKEQLSGSPWILLRENEVSTLYKGEYHRA PVA

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IKVFKKLQAGSIAIVRQTFNKEIKTMKKFESPNILRIFGICIDETVTPPQFSIVMEYCELG
 TLRELLDREKD LTLGKRMVLVLGAARGLYRLHHSEAPELHGKIRSSNFLVTQGYQV
 KLAGFELRKTQTSMSTGTTREKTDVKSTA YLSPQELEDVFYQYDVKSEIYSFGIVL
 WEIATGDIPFQGCNSEKIRKLVAVKRQQEPLGEDCPSELREIIDECRA HDPSVRPSV
 DEILKKLSTFSK

Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MLKL mixed lineage kinase domain-like [Homo sapiens]
Official Symbol	MLKL
Synonyms	MLKL; mixed lineage kinase domain-like; mixed lineage kinase domain-like protein; hMLKL
Gene ID	197259
mRNA Refseq	NM_152649
Protein Refseq	NP_689862
MIM	615153
UniProt ID	Q8NB16