

MLKL Rabbit mAb
Catalog # AP78939**Specification****MLKL Rabbit mAb - Product Information**

Application	WB
Primary Accession	Q8NB16
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	54479

MLKL Rabbit mAb - Additional Information

Gene ID 197259

Other Names

MLKL

Dilution

WB~~1/500-1/1000

Format

Liquid

MLKL Rabbit mAb - Protein Information**Name** MLKL {ECO:0000303|PubMed:22265413, ECO:0000312|HGNC:HGNC:26617}**Function**

Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process (PubMed: [22265413](http://www.uniprot.org/citations/22265413), PubMed: [22265414](http://www.uniprot.org/citations/22265414), PubMed: [22421439](http://www.uniprot.org/citations/22421439), PubMed: [24316671](http://www.uniprot.org/citations/24316671)). Does not have protein kinase activity (PubMed: [22265413](http://www.uniprot.org/citations/22265413), PubMed: [22265414](http://www.uniprot.org/citations/22265414), PubMed: [22421439](http://www.uniprot.org/citations/22421439), PubMed: [24316671](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22265413), PubMed: [22265414](http://www.uniprot.org/citations/22265414), PubMed: [22421439](http://www.uniprot.org/citations/22421439), PubMed: [24316671](http://www.uniprot.org/citations/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 similarity). Binds to highly phosphorylated inositol phosphates such as inositolhexakisphosphate (InsP6) which is essential for its necroptotic function (PubMed:29883610).

Cellular Location

Cytoplasm. Cell membrane Nucleus {ECO:0000250|UniProtKB:Q9D2Y4}. Note=Localizes to the cytoplasm and translocates to the plasma membrane on necroptosis induction (PubMed:24316671). Localizes to the nucleus in response to orthomyxoviruses infection (By similarity) {ECO:0000250|UniProtKB:Q9D2Y4, ECO:0000269|PubMed:24316671}

MLKL Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MLKL Rabbit mAb - Images

