

# Phospho-MLKL (Ser358) Rabbit mAb

Catalog # AP76979

## Product Information

<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q8NB16</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Phospho-MLKL (S358)
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	54479

## Additional Information

<b>Gene ID</b>	197259
<b>Other Names</b>	MLKL
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

<b>Name</b>	MLKL {ECO:0000303 PubMed:22265413, ECO:0000312 HGNC:HGNC:26617}
<b>Function</b>	<p>Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process (PubMed:<a href="#">22265413</a>, PubMed:<a href="#">22265414</a>, PubMed:<a href="#">22421439</a>, PubMed:<a href="#">24316671</a>). Does not have protein kinase activity (PubMed:<a href="#">22265413</a>, PubMed:<a href="#">22265414</a>, PubMed:<a href="#">22421439</a>, PubMed:<a href="#">24316671</a>). 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:<a href="#">22265413</a>, PubMed:<a href="#">22265414</a>, PubMed:<a href="#">22421439</a>, PubMed:<a href="#">24316671</a>). 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,</p>

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}

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