

Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody
Catalog # ABO16185**Specification****Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody - Product Information**

Application	WB, IP
Primary Accession	Q9D2Y4
Host	Rabbit
Isotype	IgG
Reactivity	Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Mouse.

Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody - Additional Information

Gene ID 74568

Other Names

Mixed lineage kinase domain-like protein, Mlkl {ECO:0000303|PubMed:23835476, ECO:0000312|MGI:MGI:1921818}

Calculated MW

54 kDa KDa

Application Details

WB 1:500-1:2000
IP 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Phospho-MLKL (S345)

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody - Protein Information

Name Mlkl {ECO:0000303|PubMed:23835476, ECO:0000312|MGI:MGI:1921818}

Function

Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process (PubMed:23835476, PubMed:24012422, PubMed:24019532, PubMed:27321907, PubMed:32200799, PubMed:32296175). Does not have protein kinase activity (PubMed:24012422). 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:23835476, PubMed:24012422, PubMed:24019532, PubMed:27321907). In addition to TNF-induced necroptosis, necroptosis can also take place in the nucleus in response to orthomyxoviruses infection: 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 (PubMed:32200799, PubMed:32296175). Binds to highly phosphorylated inositol phosphates such as inositolhexakisphosphate (InsP6) which is essential for its necroptotic function (By similarity).

Cellular Location

Cytoplasm. Cell membrane. Nucleus. Note=Localizes to the cytoplasm and translocates to the plasma membrane on necroptosis induction (By similarity). Localizes to the nucleus in response to orthomyxoviruses infection (PubMed:32200799). {ECO:0000250|UniProtKB:Q8NB16, ECO:0000269|PubMed:32200799}

Tissue Location

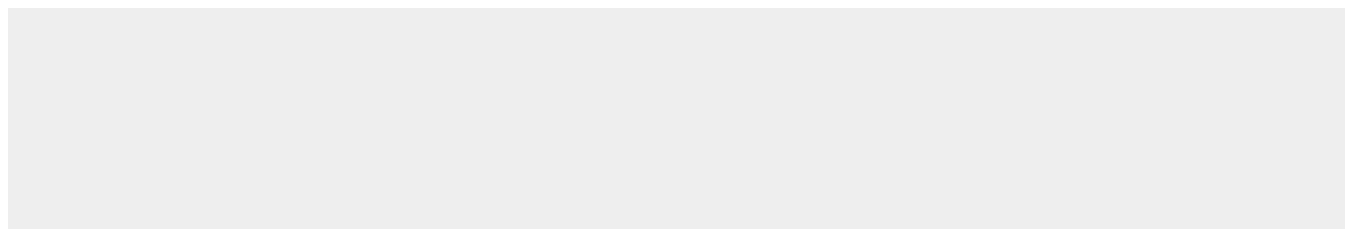
Highly expressed in thymus, colon, intestine, liver, spleen and lung. Expressed at much lower level in skeletal muscle, heart and kidney. Not detected in brain

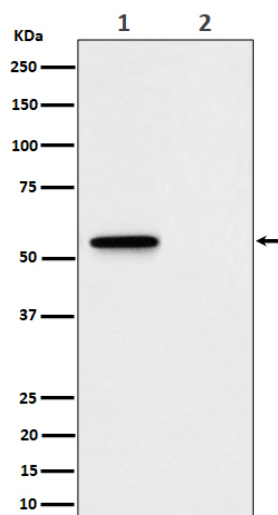
Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-Phospho-MLKL (S345) Rabbit Monoclonal Antibody - Images





Western blot analysis of Phospho-MLKL (S345) expression in (1) L929 treated with Z-VAD + TNF alpha + SM164 cell lysate; (2) Untreated.