

**MIKl Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5609**

**Specification**

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**MIKl Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9D2Y4</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	M=54,53 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**MIKl Antibody (C-term) - Additional Information**

**Gene ID** 74568

**Antigen Region**  
444-472

**Other Names**

Mixed lineage kinase domain-like protein, MIKl {ECO:0000312|EMBL:AAH237551, ECO:0000312|MGI:MGI:1921818}

**Dilution**

WB~~0.25

**Target/Specificity**

This Mouse MIKl antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 444-472 amino acids from the C-terminal region of mouse MIKl.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MIKl Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MIKl Antibody (C-term) - Protein Information**

**Name** MIKl {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:<a href="http://www.uniprot.org/citations/23835476" target="\_blank">23835476</a>),

PubMed: <a href="http://www.uniprot.org/citations/24012422" target="\_blank">24012422</a>, PubMed: <a href="http://www.uniprot.org/citations/24019532" target="\_blank">24019532</a>, PubMed: <a href="http://www.uniprot.org/citations/27321907" target="\_blank">27321907</a>, PubMed: <a href="http://www.uniprot.org/citations/32200799" target="\_blank">32200799</a>, PubMed: <a href="http://www.uniprot.org/citations/32296175" target="\_blank">32296175</a>). Does not have protein kinase activity (PubMed: <a href="http://www.uniprot.org/citations/24012422" target="\_blank">24012422</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="http://www.uniprot.org/citations/23835476" target="\_blank">23835476</a>, PubMed: <a href="http://www.uniprot.org/citations/24012422" target="\_blank">24012422</a>, PubMed: <a href="http://www.uniprot.org/citations/24019532" target="\_blank">24019532</a>, PubMed: <a href="http://www.uniprot.org/citations/27321907" target="\_blank">27321907</a>). 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: <a href="http://www.uniprot.org/citations/32200799" target="\_blank">32200799</a>, PubMed: <a href="http://www.uniprot.org/citations/32296175" target="\_blank">32296175</a>). 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

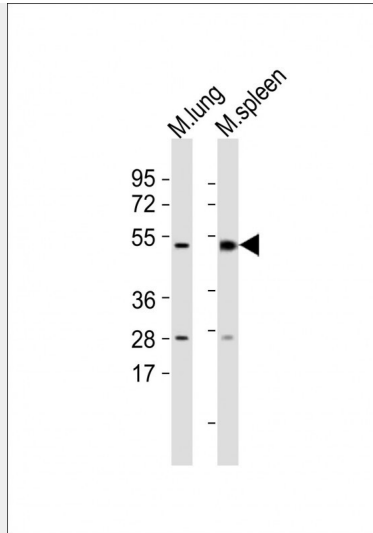
#### MIK1 Antibody (C-term) - Protocols

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

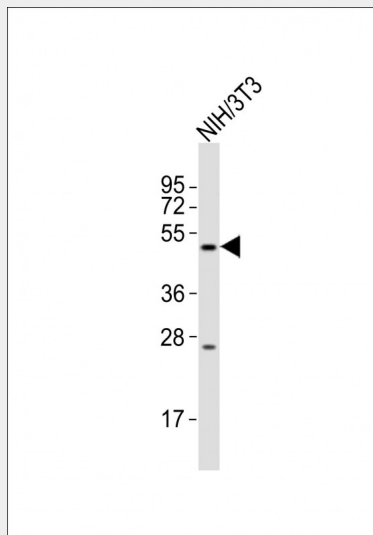
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MIK1 Antibody (C-term) - Images

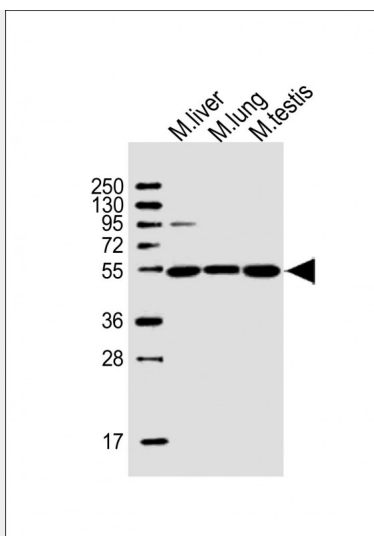




All lanes : Anti-MiKl Antibody (C-term) at 1:1000 dilution Lane 1: mouse lung lysates Lane 2: mouse spleen lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-MiKl Antibody (C-term)at 1:2000 dilution + NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-MIK1 Antibody (C-term) at 1:2000 dilution Lane 1: mouse liver lysate Lane 2: mouse lung lysate Lane 3: mouse testis lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### **MIK1 Antibody (C-term) - Background**

The protein kinase domain is predicted to be catalytically inactive. Molecular function: protein binding. There are two isoforms.

#### **MIK1 Antibody (C-term) - References**

Bisson, N., et al. Cell Cycle 7(7):909-916(2008)