

Rabbit anti-Human, Mouse MLKL Polyclonal Antibody | anti-MLKL antibody

Phospho-MLKL (Ser360) Antibody

CATALOG # AAA329357	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS ELISA, Immunohistochemistry
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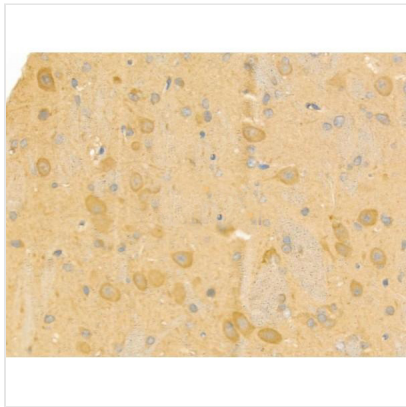
PRODUCT SYNONYMS

MLKL; Polyclonal Antibody; Phospho-MLKL (Ser360) Antibody; 9130019I15Rik; FLJ34389; hMLKL; Mixed lineage kinase domain like; Mixed lineage kinase domain like protein; Mixed lineage kinase domain like pseudokinase; Mixed lineage kinase domain-like protein; Mlkl; MLKL_HUMAN; anti-MLKL antibody

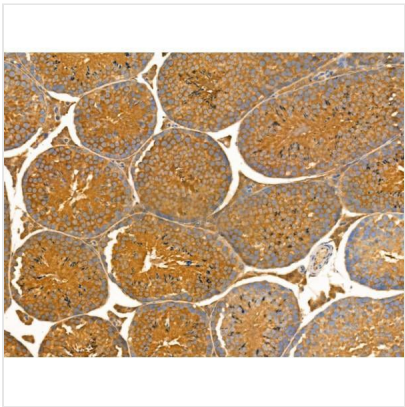
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MLKL (Ser360) Antibody detects endogenous levels of MLKL only when phosphorylated at Ser360.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MLKL antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human MLKL around the phosphorylation site of Ser360.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation by RIPK3 induces a conformational switch that is required for necroptosis. It also induces homotrimerization and localization to the plasma membrane.
Subunit Structure	Homooligomer. Homotrimer; forms homotrimers on necroptosis induction. Interacts with RIPK3; the interaction is direct. Upon TNF-induced necrosis, forms in complex with PGAM5, RIPK1 and RIPK3. Within this complex, may play a role in the proper targeting of RIPK1/RIPK3 to its downstream effector PGAM5.
Similarity	The protein kinase domain is catalytically inactive but contains an unusual pseudoactive site with an interaction between Lys-230 and Gln-356 residues. Upon phosphorylation by RIPK3, undergoes an active conformation (By similarity).The coiled coil region 2 is responsible for homotrimerization.Belongs to the protein kinase superfamily.
Subcellular Location	Cytoplasm. Cell membrane. Note: Localizes to the cytoplasm and translocates to the plasma membrane on necroptosis induction.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
Staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MLKL antibody	Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process. 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. Does not have protein kinase activity. Binds to highly phosphorylated inositol phosphates such as inositolhexakisphosphate (InsP6) which is essential for its necroptotic function.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	215820622
NCBI GeneID	197259
NCBI Accession #	NP_001135969.1
NCBI GenBank Nucleotide #	NM_001142497.1
UniProt Accession #	Q8NB16; Q8N6V0; A6NCE4
Molecular Weight	54,479 Da
NCBI Official Full Name	mixed lineage kinase domain-like protein isoform 2
NCBI Official Synonym Full Names	mixed lineage kinase domain-like
NCBI Official Symbol	MLKL
NCBI Protein Information	mixed lineage kinase domain-like protein
UniProt Protein Name	Mixed lineage kinase domain-like protein
UniProt Gene Name	MLKL
UniProt Entry Name	MLKL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mlkl-antibody-peptide-elisa-immunohistochemistry-elisa/329357>