
Product Name: KD-Validated MLKL Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00762**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 54.5kDa

Antigen Information

Gene Name	MLKL
Alternative Names	MLKL; Mixed Lineage Kinase Domain-Like Protein; FLJ34389; HMLKL; Mixed Lineage Kinase Domain-Like
Gene ID	197259.0
SwissProt ID	Q8NB16
Immunogen	A synthesized peptide derived from human MLKL

Background

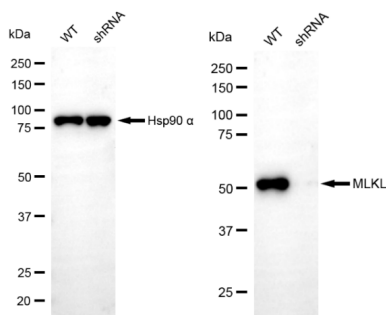
This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3),

which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015]

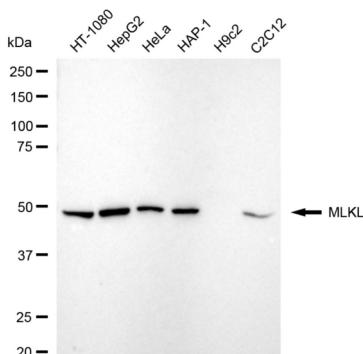
Research Area

Signal Transduction, Microbiology, Cancer

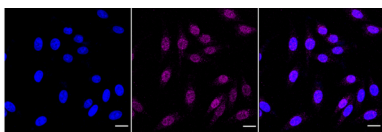
Image Data



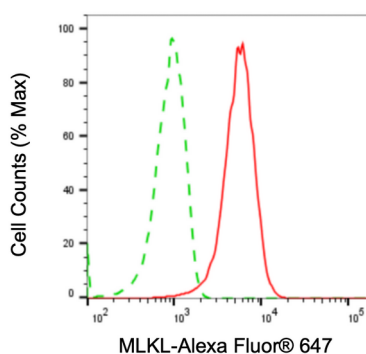
Western blotting analysis using MLKL antibody (KVA00762). MLKL expression in wild type (WT) and MLKL shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MLKL antibody (KVA00762, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using MLKL antibody (KVA00762). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MLKL antibody (KVA00762, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. MLKL, mixed lineage kinase domain like pseudokinase.



Immunocytochemical staining of HepG2 cells with MLKL antibody (KVA00762, 1:1,000). Nuclei were stained blue with DAPI; MLKL was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of MLKL expression in HepG2 cells using MLKL antibody (KVA00762, 1:2,000). Green, isotype control; red, MLKL.