

MLK1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7919a

Product Information

Application IHC-P, WB, E Primary Accession P80192

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGAntigen Region1070-1104

Additional Information

Other Names Mitogen-activated protein kinase kinase kinase 9, Mixed lineage kinase 1,

MAP3K9, MLK1, PRKE1

Target/Specificity This MLK1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 1070-1104 amino acids from the

C-terminal region of human MLK1.

Dilution IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

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 MLK1 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

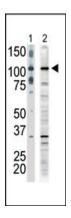
Background

MLK1 is a MLK(MAP3K) type protein kinase. The catalytic domain of mixed-lineage kinases (MLKs) kinases have amino acid sequence similarity to both the tyr-specific and the ser/thr-specific kinase classes. In addition to thee unusual nature of the kinase catalytic domains, MLK1 and MLK2 contain 2 leu/ile-zipper motifs and a basic sequence near their C-termini. MLK1 is a member of the neuronal apoptotic JNK/c-Jun pathway acting between Rac1/Cdc42 and MKK4 and -7 in death signaling. MLK1 expression has been documented in human epithelial tumor cell lines of colonic, breast and esophageal origin.

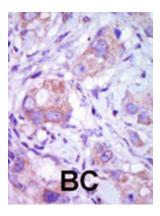
References

Durkin, J.T., et al., Biochemistry 43(51):16348-16355 (2004). Gallo, K.A., et al., J. Biol. Chem. 269(21):15092-15100 (1994). Dorow, D.S., et al., Eur. J. Biochem. 213(2):701-710 (1993).

Images



The anti-MLK1 Pab (Cat. #AP7919a) is used in Western blot to detect MLK1 in A375 cell lysate (lane 1) and rat testis tissue lysate (lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Citations

- Ablation of mixed lineage kinase 3 (Mlk3) does not inhibit ototoxicity induced by acoustic trauma or aminoglycoside exposure.
- Mixed lineage kinase-3 stabilizes and functionally cooperates with TRIBBLES-3 to compromise mitochondrial integrity in cytokine-induced death of pancreatic beta cells.
- <u>Identification of genes differentially expressed as result of adenovirus type 5- and adenovirus type 12-transformation.</u>

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.