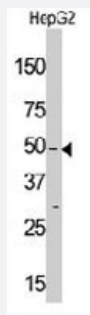


MLKLAK polyclonal antibody

Catalog # PAB3277

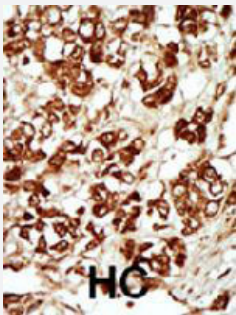
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of MLKLAK polyclonal antibody (Cat # PAB3277) in HepG2 cell line lysate (35 ug/lane). MLKLAK (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution). This western blot detected isoform 2 of MLKLAK, the accession number for MLKLAK isoform 1 is Q9NYL2, NP_057737.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with MLKLAK polyclonal antibody (Cat # PAB3277), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MLKLAK.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human MLKLAK.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — ZAK

Entrez GeneID	51776
Protein Accession#	Q9NYL2-2;NP_598407
Gene Name	ZAK
Gene Alias	AZK, MLK7, MLT, MLTK, MRK, mlklak
Gene Description	sterile alpha motif and leucine zipper containing kinase AZK
Omim ID	609479
Gene Ontology	Hyperlink

Gene Summary

This gene is a member of the MAPKKK family of signal transduction molecules and encodes a protein with an N-terminal kinase catalytic domain, followed by a leucine zipper motif and a sterile-alpha motif (SAM). This magnesium-binding protein forms homodimers and is located in the cytoplasm. The protein mediates gamma radiation signaling leading to cell cycle arrest and activity of this protein plays a role in cell cycle checkpoint regulation in cells. The protein also has pro-apoptotic activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations

MLK-like mitogen-activated protein triple kinase|MLK-related kinase|cervical cancer suppressor gene 4 protein|leucine zipper- and sterile alpha motif-containing kinase|mitogen-activated protein kinase kinase kinase MLT|mixed lineage kinase 7|mixed lineage

Publication Reference

- [Oncogenic kinase signalling.](#)

Blume-Jensen P, Hunter T.

Nature 2001 May; 411(6835):355.

- [Phosphoinositide 3-kinase signalling pathways.](#)

Cantrell DA.

Journal of Cell Science 2001 Apr; 114(Pt 8):1439.

- [The RET proto-oncogene in human cancers.](#)

Jiang SM.

Oncogene 2000 Nov; 19(49):5590.

Pathway

- [MAPK signaling pathway](#)
- [Tight junction](#)

Disease

- [Kidney Failure](#)
- [Tobacco Use Disorder](#)