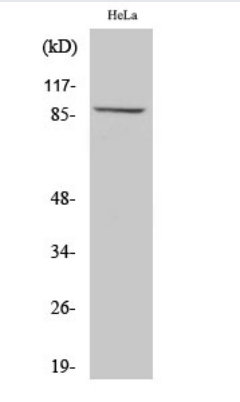
MLTK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MLTK, Polyclonal Antibody
Full Product Name	MLTK Polyclonal Antibody
Product Gene Name	anti-MLTK antibody
Product Synonym Names	MLTK; ZAK; HCCS4; Mitogen-activated protein kinase kinase kinase MLT; Human cervical cancer suppressor gene 4 protein; HCCS-4; Leucine zipper-and sterile alpha motif-containing kinase; MLK-like mitogen-activated protein triple kinase; Mixe
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	MLTK Polyclonal Antibody detects endogenous levels of MLTK protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	35,468 Da
OMIM	609479
3D Structure	ModBase 3D Structure for Q9NYL2
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from the C-terminal region of human MLTK.
Target Name	MLTK
Product Categories/Family for anti-MLTK antibody	Total protein Ab
Applications Tested/Suitable for anti-MLTK antibody	Western Blot (WB), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-MLTK antibody	Western Blot: 1:500 - 1:2000 Immunofluorescence: 1:200 - 1:1000 ELISA: 1:20000 Not yet tested in other applications.
Related Product Information for anti-MLTK antibody	MBS9400912 is an antibody targeting MLTK. Also known as MLTK Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-MLTK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MLTK antibody
Western Blot analysis of HeLa cells using MLTK Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLTK. It may not necessarily be applicable to this product.

NCBI GI #	82880648
NCBI GeneID	51776
NCBI Accession #	NP_057737.2
UniProt Primary Accession #	Q9NYL2
UniProt Secondary Accession #	Q53SX1; Q580W8; Q59GY5; Q86YW8; Q9HCC4; Q9HCC5; Q9HDD2; Q9NYE9; B3KPG2
UniProt Related Accession #	Q9NYL2
GenBank Nucleotide #	NM_016653.2
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase MLT isoform 1
NCBI Official Symbol	ZAK
NCBI Official Synonym Symbols	pk; AZK; MLT; MRK; MLK7; MLTK; mlklak
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase MLT
UniProt Synonym Protein Names	Human cervical cancer suppressor gene 4 protein; HCCS-4; Leucine zipper- and sterile alpha motif-containing kinase; MLK-like mitogen-activated protein triple kinase; Mixed lineage kinase-related kinase; MLK-related kinase; MRK; Sterile alpha motif- and leucine zipper-containing kinase AZK
UniProt Gene Name	ZAK
UniProt Synonym Gene Names	MLTK; HCCS-4; MLK-related kinase; MRK
UniProt Entry Name	MLTK_HUMAN
NCBI Protein Information	mitogen-activated protein kinase kinase kinase MLT
NCBI Summary for MLTK	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, Jul 2008]

UniProt Comments for MLTK	ZAK: a mixed-lineage kinase containing a leucine-zipper (LZ) and a sterile-alpha motif (SAM). It is reported to activate the JNK/SAPK and NF-kappaB pathways. Protein type: Protein kinase, TKL; Kinase, protein; EC 2.7.11.25; Protein kinase, Ser/Thr (non-receptor); TKL group; MLK family; MLK subfamily Chromosomal Location of Human Ortholog: 2q24.2 Cellular Component: cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; MAP kinase kinase kinase activity; magnesium ion binding; ATP binding Biological Process: cell death; cell proliferation; response to radiation; activation of MAPKK activity; positive regulation of apoptosis; DNA damage checkpoint; response to stress; cytoskeleton organization and biogenesis; cell differentiation; cell cycle arrest; protein amino acid phosphorylation; cell cycle checkpoint; activation of JNK activity
Research Articles on MLTK	**1.** ZAK kinase isoform TV1 is preferentially upregulated in gastric tumours and cell lines relative to normal samples. This pattern is also observed in colorectal, bladder and breast cancers.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/mltk/9400912