MLKLAK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MLKLAK, Polyclonal Antibody
Full Product Name	MLKLAK (MLK-like Mitogen-activated Protein Triple Kinase, MLTK, AZK, Human Cervical Cancer Suppressor Gene 4 Protein, HCCS4, HCCS-4, Leucine Zipper-and Sterile alpha Motif-containing Kinase, Mitogen-activated Protein Kinase Kinase Kinase MLT, Mixed Lineag
Product Gene Name	anti-MLKLAK antibody
Product Synonym Names	EC=2.7.11.25
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human MLKLAK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,468 Da
OMIM	609479
3D Structure	ModBase 3D Structure for Q9NYL2
Immunogen	Synthetic peptide selected from the center region of human MLKLAK (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MLKLAK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MLKLAK antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MLKLAK antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-MLKLAK antibody	MBS6488396 is an antibody targeting MLKLAK. Also known as MLKLAK (MLK-like Mitogen-activated Protein Triple Kinase, MLTK, AZK, Human Cervical Cancer Suppressor Gene 4 Protein, HCCS4, HCCS-4, Leucine Zipper-and Sterile alpha Motif-containing Kinase, Mitogen-activated Protein Kinase Kinase Kinase MLT, Mixed Lineag. Reactive in Human. Host: Rabbit.

Product References and Citations for anti-MLKLAK antibody	1. Blume-Jensen P, et al. Nature 2001. 411: 355. 2. Cantrell D, J. Cell Sci. 2001. 114: 1439. 3. Jhiang S Oncogene 2000. 19: 5590. 4. Manning G, et al. Science 2002. 298: 1912. 5. Moller, D, et al. Am. J. Physiol. 1994. 266: C351-C359. 6.Robertson, S. et al. Trends Genet. 2000. 16: 368. 7.Robinson D, et al. Oncogene 2000. 19: 5548. 8.Van der Ven, P, et al. Hum. Molec. Genet. 1993. 2: 1889. 9.Vanhaesebroeck, B, et al. Biochem. J. 2000. 346: 561. 10.Van Weering D, et al. Recent Results Cancer Res. 1998. 154: 271.
Other Notes	Small volumes of anti-MLKLAK 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.

ADDITIONAL DETAILS

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

NCBI GI #	19526767
NCBI GeneID	51776
NCBI Accession #	NP_598407
UniProt Primary Accession #	Q9NYL2
UniProt Secondary Accession #	Q53SX1; Q580W8; Q59GY5; Q86YW8; Q9HCC4; Q9HCC5; Q9HDD2; Q9NYE9; B3KPG2
UniProt Related Accession #	Q9NYL2
GenBank Nucleotide #	NM_133646.2
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase MLT isoform 2
NCBI Official Symbol	ZAK
NCBI Official Synonym Symbols	pk; AZK; MLT; MRK; MLK7; MLTK; SFMMP; 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	MLTK
UniProt Synonym Gene Names	ZAK; HCCS-4; MLK-related kinase; MRK
UniProt Entry Name	MLTK_HUMAN
NCBI Protein Information	mitogen-activated protein kinase kinase kinase MLT
NCBI Summary for MLKLAK	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 MLKLAK	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: EC 2.7.11.25; Kinase, protein; Protein kinase, TKL; 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 cycle arrest; cell differentiation; protein amino acid phosphorylation; cell cycle checkpoint; activation of JNK activity
Research Articles on MLKLAK	**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.
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