



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 Lineage Kinase-related Kinase, MLK-related Kinase, MRK, MLK7, Sterile alpha Motif- and Leucine Zipper-containing Kinase AZK, ZAK) (Biotin)

Catalog number

M4125-65-Biotin

Supplier

United States Biological

MLKLAK is a member of the MAPKKK family of signal transduction molecules. It possesses 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.

Applications

Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Other applications not tested.

Recommended Dilution

ELISA: 1:1,000

Western Blot: 1:100-1:500

Immunohistochemistry: 1:50-1:100

Optimal dilutions to be determined by the researcher.

Storage and Stability

Store product at 4°C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20°C. Aliquots are stable at -20°C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Note

Applications are based on unconjugated antibody.

Immunogen

Synthetic peptide selected from the center region of human MLKLAK (KLH).

Formulation

Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.

**Purity**

Purified by Protein G affinity chromatography.

Specificity

Recognizes human MLKLAK.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

E IHC WB

Crossreactivity

Hu

Storage

-20°C

MW

50

Detection Method

Biotin

Reference

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.