

MLK3 monoclonal antibody

Catalog: MB67116

Host: Mouse

Reactivity: Human

BackGround:

Mixed lineage kinase 3 (MLK3) is a serine/threonine kinase that has an amino-terminal SH3 domain followed by the kinase domain and two leucine zippers, a cdc42/Rac1 binding (CRIB) domain and several other domains/motifs at the carboxy-terminal region. CRIB triggers the dimerization of MLK3 via its tandem leucine zippers, followed by the intramolecular phosphorylation and subsequent activation of MLK3. Autophosphorylation of Thr277 and Ser281 is essential for MLK3 kinase activity. Ser281 is also phosphorylated by HPK in an in vitro kinase assay. MLK3 functions as a MAPKKK of the SAPK/JNK stress pathway by directly phosphorylating SEK1/MKK4 and MKK7, although it is controversial whether MLK3 is involved in p38 stress pathway activation. MLK3 also functions as an I κ B kinase and mediates the activation of the transcriptional factor NF- κ B stimulated by CD3/CD28, suggesting a role for MLK3 in immune and inflammatory responses.

Product:

Mouse IgM kappa. Supplied in crude ascites with 0.01% sodium azide.

Molecular Weight:

~ 92 kDa

Swiss-Prot:

Q16584

Purification&Purity:

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of MLK3 protein.

DATA:



Western blot analysis of MLK3 expression in HepG2 (A) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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