

Product Name: MLK3 Rabbit Polyclonal Antibody
Catalog #: AP Rab13955



Summary

Production Name	MLK3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MAP3K11
Alternative Names	MAP3K11; MLK3; PTK1; SPRK; Mitogen-activated protein kinase kinase kinase 11; Mixed lineage kinase 3; Src-homology 3 domain-containing proline-rich kinase
Gene ID	4296.0
SwissProt ID	Q16584. The antiserum was produced against synthesized peptide derived from human MLK3. AA range: 640-689

Application

Dilution Ratio	IHC 1:100-1:300 ELISA: 1:20000
Molecular Weight	

Background

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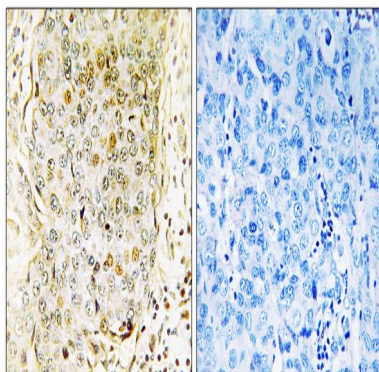


The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase contains a SH3 domain and a leucine zipper-basic motif. This kinase preferentially activates MAPK8/JNK kinase, and functions as a positive regulator of JNK signaling pathway. This kinase can directly phosphorylate, and activates I κ B kinase alpha and beta, and is found to be involved in the transcription activity of NF-kappaB mediated by Rho family GTPases and CDC42. [provided by RefSeq, Jul 2008], catalytic activity: ATP + a protein = ADP + a phosphoprotein., cofactor: Magnesium., enzyme regulation: Homodimerization via the leucine zipper domains is required for autophosphorylation and subsequent activation., function: Activates the JUN N-terminal pathway. Required for serum-stimulated cell proliferation and for mitogen and cytokine activation of MAPK14 (p38), MAPK3 (ERK) and MAPK8 (JNK1). Plays a role in mitogen-stimulated phosphorylation and activation of BRAF, but does not phosphorylate BRAF directly. Influences microtubule organization during the cell cycle., PTM: Autophosphorylation on serine and threonine residues within the activation loop plays a role in enzyme activation. Thr-277 is likely to be the main autophosphorylation site. Phosphorylation of Ser-555 and Ser-556 is induced by CDC42., similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily., similarity: Contains 1 protein kinase domain., similarity: Contains 1 SH3 domain., subcellular location: Location is cell cycle dependent., subunit: Homodimer; undergoes dimerization during activation., tissue specificity: Expressed in a wide variety of normal and neoplastic tissues including fetal lung, liver, heart and kidney, and adult lung, liver, heart, kidney, placenta, skeletal muscle, pancreas and brain.,

Research Area

MAPK_ERK_Growth; MAPK_G_Protein; SAPK_JNK; Cell Growth

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MLK3 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.