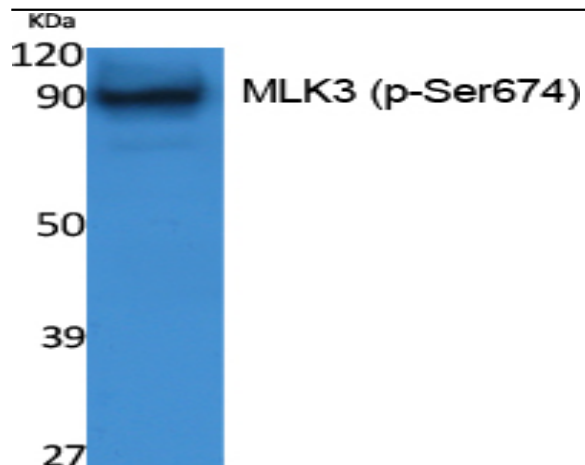


MLK3 (phospho Ser674) Polyclonal Antibody

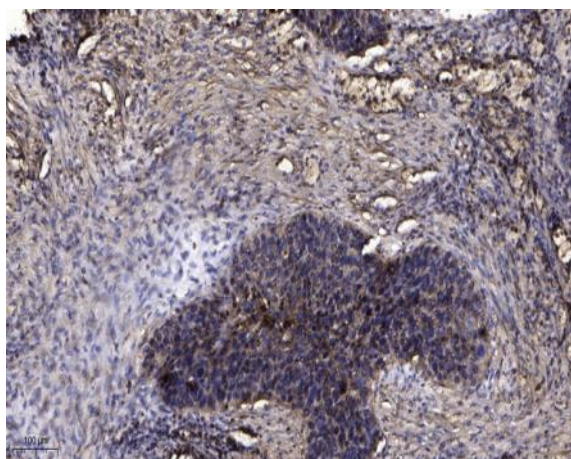
Catalog No :	YP1202
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	MLK3
Fields :	>>MAPK signaling pathway;>>Non-alcoholic fatty liver disease
Gene Name :	MAP3K11
Protein Name :	Mitogen-activated protein kinase kinase kinase 11
Human Gene Id :	4296
Human Swiss Prot No :	Q16584
Mouse Gene Id :	26403
Mouse Swiss Prot No :	Q80XI6
Rat Gene Id :	309168
Rat Swiss Prot No :	Q66HA1
Immunogen :	Synthesized phospho-peptide around the phosphorylation site of human MLK3 (phospho Ser674)
Specificity :	Phospho-MLK3 (S674) Polyclonal Antibody detects endogenous levels of MLK3 protein only when phosphorylated at S674.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	93kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;
Background :	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 IkappaB 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],
Function :	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
Subcellular Location :	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Location is cell cycle dependent.
Expression :	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.

Products Images



Western Blot analysis of extracts from NIH-3T3 cells, using Phospho-MLK3 (S674) Polyclonal Antibody.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).