

**Product Name: MLK3 (phospho Ser674) Rabbit Polyclonal Antibody**  
**Catalog #: APRab05028**

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## Summary

<b>Production Name</b>	MLK3 (phospho Ser674) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

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

## Immunogen

<b>Gene Name</b>	MAP3K11
<b>Alternative Names</b>	MAP3K11; MLK3; PTK1; SPRK; Mitogen-activated protein kinase kinase kinase 11; Mixed lineage kinase 3; Src-homology 3 domain-containing proline-rich kinase
<b>Gene ID</b>	4296.0
<b>SwissProt ID</b>	Q16584.Synthesized phospho-peptide around the phosphorylation site of human MLK3 (phospho Ser674)

## Application

<b>Dilution Ratio</b>	WB 1:500-2000
<b>Molecular Weight</b>	

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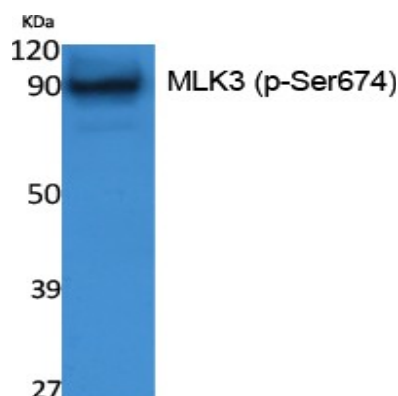
## Background

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], 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 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;

## Image Data



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

## Note

For research use only.



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