

## MLK3 (Phospho Thr277+Ser281) Rabbit pAb

CatalogNo: YP1580

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA, IHC

#### MW

- 93kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

**ELISA 1:2000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human MLK3 (Phospho Thr277+Ser281)

**Specificity** This antibody detects endogenous levels of MLK3 only when phosphorylated at Thr277 or Ser281, and dually phosphorylated at two sites. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): KtTQM<sub>s</sub>A

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## | Target Information

**Gene name** MAP3K11 MLK3 PTK1 SPRK

**Protein Name** MLK3 (Phospho Thr277+Ser281)

Organism	Gene ID	UniProt ID
Human	<a href="#">4296;</a>	<a href="#">Q16584;</a>
Mouse	<a href="#">26403;</a>	<a href="#">Q80XI6;</a>
Rat	<a href="#">309168;</a>	<a href="#">Q66HA1;</a>

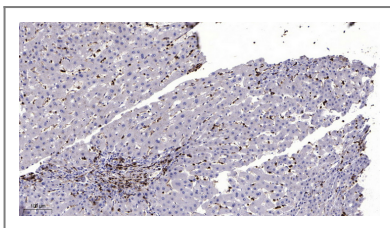
**Cellular Localization** Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Location is cell cycle dependent.

**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.

**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 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. ,

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## | Validation Data



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

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## | Contact information

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Telephone: 400-8787-807(China)  
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Please scan the QR code  
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product information:  
**MLK3 (Phospho  
Thr277+Ser281)  
Rabbit pAb**

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