# MAP2K1 (phospho T386) polyclonal antibody

Catalog # PAB9609 Size 100 uL

## Applications


### Western Blot (Cell lysate)

Western blot of human T-47D cells showing specific immunolabeling of the ~45k MAP2K1 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda phosphatase: lambda Ptase) The blot is identical to the control except that it was incubated in lambda Ptase (1200 units for 30 min) before being exposed to the MAP2K1 (phospho T386) polyclonal antibody (Cat # PAB9609). The immunolabeling of MAP2K1 is completely eliminated by lambda Ptase.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic phosphopeptide of MAP2K1. |
| **Immunogen** | Synthetic phosphopeptide corresponding to residues surrounding T386 of human MAP2K1. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 45 |
| **Reactivity** | Bovine, Chicken, Clawed frog, Dog, Human, Mouse, Primates, Rat |
| **Form** | Liquid |
| **Purification** | Affinity purification |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |
| **Recommend Usage** | Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA) |

| | |
|---|---|
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Cell lysate)

  Western blot of human T-47D cells showing specific immunolabeling of the ~45k MAP2K1 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda phosphatase: lambda Ptase) The blot is identical to the control except that it was incubated in lambda Ptase (1200 units for 30 min) before being exposed to the MAP2K1 (phospho T386) polyclonal antibody (Cat # PAB9609). The immunolabeling of MAP2K1 is completely eliminated by lambda Ptase.

## Gene Info — MAP2K1

| | |
|---|---|
| **Entrez GeneID** | 5604 |
| **Protein Accession#** | Q02750 |
| **Gene Name** | MAP2K1 |
| **Gene Alias** | MAPKK1, MEK1, MKK1, PRKMK1 |
| **Gene Description** | mitogen-activated protein kinase kinase 1 |
| **Omim ID** | 176872 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellu lar signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. T his protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kin ases upon wide variety of extra- and intracellular signals. As an essential component of MAP kina se signal transduction pathway, this kinase is involved in many cellular processes such as prolifer ation, differentiation, transcription regulation and development. [provided by RefSeq |
| **Other Designations** | protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1) |

## Publication Reference

- Mechanisms of regulating the Raf kinase family.

  Chong H, Vikis HG, Guan KL.

  Cellular Signalling 2003 May; 15(5):463.

- Molecular psychology: roles for the ERK MAP kinase cascade in memory.

  Adams JP, Sweatt JD.

  Annual Review of Pharmacology and Toxicology 2002 Apr; 42:135.

- Mitogen-activated protein (MAP) kinase phosphorylation of MAP kinase kinase: determination of phosphorylation sites by mass spectrometry and site-directed mutagenesis.

  Mansour SJ, Resing KA, Candi JM, Hermann AS, Gloor JW, Herskind KR, Wartmann M, Davis RJ, Ahn NG.

  Journal of Biochemistry 1994 Aug; 116(2):304.

  Application: WB-Tr, Mouse, CHO cells

## Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Dorso-ventral axis formation
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Long-term depression

- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prion diseases
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Thyroid cancer
- Toll-like receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

## Disease

- Abnormalities

- Adenocarcinoma
- Carcinoma
- Cognition Disorders
- Developmental Disabilities

- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Glioma
- Heart Defects
- LEOPARD Syndrome
- Lung Neoplasms
- Mental Retardation
- Noonan Syndrome
- Pancreatic Neoplasms
- Skin Abnormalities
- Syndrome