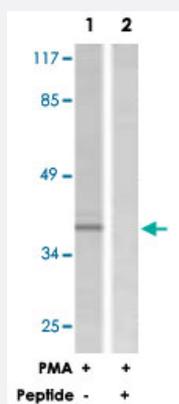


MAP2K1 polyclonal antibody

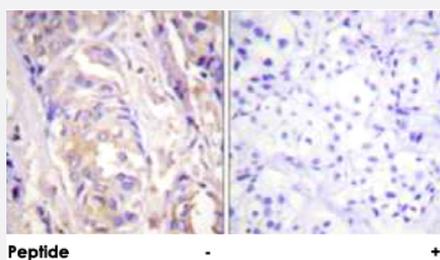
Catalog # PAB18246 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells, treated with PMA (250 ng/mL, 5 mins), using MAP2K1 polyclonal antibody (Cat # PAB18246). Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAP2K1 polyclonal antibody (Cat # PAB18246). Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MAP2K1.
Immunogen	A synthetic peptide corresponding to residues surrounding T286 of human MAP2K1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to MAP2K1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells, treated with PMA (250 ng/mL, 5 mins), using MAP2K1 polyclonal antibody (Cat # PAB18246).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAP2K1 polyclonal antibody (Cat # PAB18246).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

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 extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq]

Other Designations

protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1)

Publication Reference

- [Constitutive activation of MEK1 in chondrocytes causes Stat1-independent achondroplasia-like dwarfism and rescues the Fgfr3-deficient mouse phenotype.](#)

Murakami S, Balmes G, McKinney S, Zhang Z, Givol D, de Crombrughe B.

Genes & Development 2004 Feb; 18(3):290.

Application: IS, NB, WB, WB-Tr, Mouse, Chondrocytes, C3H10T1/2 cells

- [Ubiquitin \(UbC\) expression in muscle cells is increased by glucocorticoids through a mechanism involving Sp1 and MEK1.](#)

Marinovic AC, Zheng B, Mitch WE, Price SR.

The Journal of Biological Chemistry 2002 May; 277(19):16673.

- [Wnt1 and MEK1 cooperate to promote cyclin D1 accumulation and cellular transformation.](#)

Rimerman RA, Gellert-Randleman A, Diehl JA.

The Journal of Biological Chemistry 2000 May; 275(19):14736.

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](#)