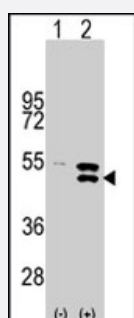


# MAP2K5 polyclonal antibody

Catalog # PAB2270

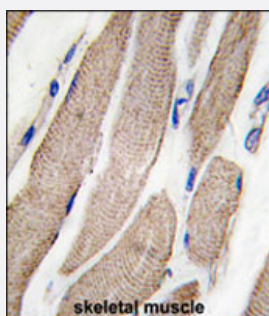
Size 400 uL

## Applications



### Western Blot (Transfected lysate)

Western blot analysis of MAP2K5 (arrow) using rabbit MAP2K5 polyclonal antibody (Cat # PAB2270). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP2K5 gene (Lane 2) (Origene Technologies).



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

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with MAP2K5 polyclonal antibody (Cat # PAB2270), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of MAP2K5.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S149 of human MAP2K5.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western blot analysis of MAP2K5 (arrow) using rabbit MAP2K5 polyclonal antibody (Cat # PAB2270). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP2K5 gene (Lane 2) (Origene Technologies).

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

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with MAP2K5 polyclonal antibody (Cat # PAB2270), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Gene Info — MAP2K5

<b>Entrez GeneID</b>	<a href="#">5607</a>
<b>Protein Accession#</b>	<a href="#">NP_002748:Q13163</a>
<b>Gene Name</b>	MAP2K5
<b>Gene Alias</b>	HsT17454, MAPKK5, MEK5, PRKMK5
<b>Gene Description</b>	mitogen-activated protein kinase kinase 5
<b>Omim ID</b>	<a href="#">602520</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq]

**Other Designations**

MAP kinase kinase MEK5b|MAPK/ERK kinase 5|dual specificity mitogen-activated protein kinase 5

**Publication Reference**

- [MEK5 and ERK5 are localized in the nuclei of resting as well as stimulated cells, while MEKK2 translocates from the cytosol to the nucleus upon stimulation.](#)

Raviv Z, Kalie E, Seger R.

Journal of Cell Science 2004 Apr; 117(Pt 9):1773.

Application: IF, WB, Human, HeLa cells

- [Contribution of the ERK5/MEK5 pathway to Ras/Raf signaling and growth control.](#)

English JM, Pearson G, Hockenberry T, Shivakumar L, White MA, Cobb MH.

The Journal of Biological Chemistry 1999 Oct; 274(44):31588.

Application: IP, WB-Tr, Human, HEK 293 cells

- [BMK1/ERK5 regulates serum-induced early gene expression through transcription factor MEF2C.](#)

Kato Y, Kravchenko VV, Tapping RI, Han J, Ulevitch RJ, Lee JD.

The EMBO Journal 1997 Dec; 16(23):7054.

Application: WB-Ce, Mouse, CHO-K1 cells

**Pathway**

- [Gap junction](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)

**Disease**

- [Attention Deficit Disorder with Hyperactivity](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Neuropsychological Tests](#)
- [Nocturnal Myoclonus Syndrome](#)
- [Obsessive-Compulsive Disorder](#)
- [Restless Legs Syndrome](#)
- [Tourette Syndrome](#)