

**MAP2K5 Antibody (S149)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7906f**

**Specification**

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**MAP2K5 Antibody (S149) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O13163</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>127-156</b>

**MAP2K5 Antibody (S149) - Additional Information**

**Gene ID** 5607

**Other Names**

Dual specificity mitogen-activated protein kinase kinase 5, MAP kinase kinase 5, MAPKK 5, MAPK/ERK kinase 5, MEK 5, MAP2K5, MEK5, MKK5, PRKMK5

**Target/Specificity**

This MAP2K5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-156 amino acids from human MAP2K5.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MAP2K5 Antibody (S149) is for research use only and not for use in diagnostic or therapeutic procedures.

**MAP2K5 Antibody (S149) - Protein Information**

**Name** MAP2K5

**Synonyms** MEK5, MKK5, PRKMK5

**Function** Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis. As part of the MAPK/ERK signaling pathway, acts as a negative regulator of apoptosis in cardiomyocytes via promotion of STUB1/CHIP-mediated ubiquitination and degradation of ICER-type isoforms of CREM (By similarity).

**Tissue Location**

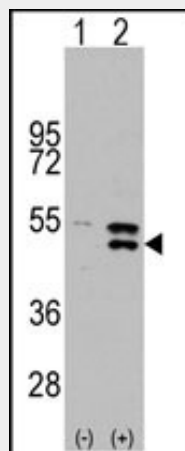
Expressed in many adult tissues. Abundant in heart and skeletal muscle

**MAP2K5 Antibody (S149) - Protocols**

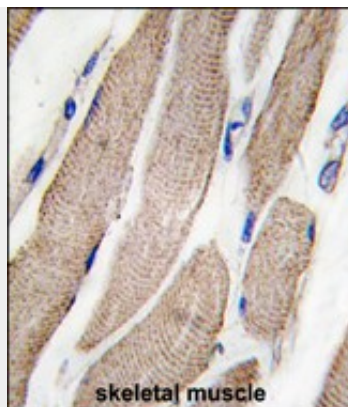
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MAP2K5 Antibody (S149) - Images**



Western blot analysis of MAP2K5 (arrow) using rabbit polyclonal MAP2K5 Antibody (S149) (Cat.#AP7906f).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP2K5 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with MAP2K5 Antibody (S149) (Cat.#AP7906f), 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.

#### **MAP2K5 Antibody (S149) - Background**

MAP2K5 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. It 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 MAP2K5 is involved in growth factor stimulated cell proliferation and muscle cell differentiation.

#### **MAP2K5 Antibody (S149) - References**

- Raviv,Z.,J. Cell. Sci. 117 (PT 9), 1773-1784 (2004)
- Kato,Y.,EMBO J. 16 (23), 7054-7066 (1997)
- English,J.M.,J. Biol. Chem. 274 (44), 31588-31592 (1999)