

**MEK2 (MAP2K2) Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5178**

**Specification**

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**MEK2 (MAP2K2) Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P36507</a>
Other Accession	<a href="#">P36506</a> , <a href="#">Q63932</a>
Reactivity	Human, Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=44;M=44;Rat=44 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**MEK2 (MAP2K2) Antibody (N-term) - Additional Information**

**Gene ID** 5605

**Antigen Region**  
1-30

**Other Names**

MAP2K2; MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein kinase kinase 2; ERK activator kinase 2; MAPK/ERK kinase 2

**Dilution**

WB~~1:1000

**Target/Specificity**

This MEK2 (MAP2K2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MEK2 (MAP2K2).

**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**

MEK2 (MAP2K2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MEK2 (MAP2K2) Antibody (N-term) - Protein Information**

**Name** MAP2K2

**Synonyms** MEK2, MKK2, PRKMK2

### Function

Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:<a href="http://www.uniprot.org/citations/29433126" target="\_blank">29433126</a>).

### Cellular Location

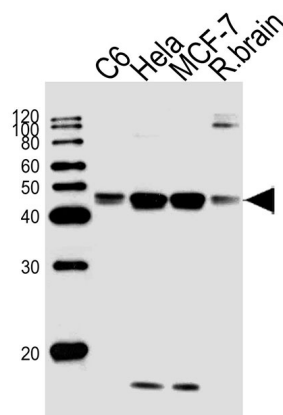
Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

## MEK2 (MAP2K2) Antibody (N-term) - 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](#)

## MEK2 (MAP2K2) Antibody (N-term) - Images



Western blot analysis of lysates from rat C6, HeLa, MCF-7 cell line and rat brain tissue lysate (from left to right), using MEK2 (MAP2K2) Antibody (N-term) (Cat. #AW5178). AW5178 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody.

## MEK2 (MAP2K2) Antibody (N-term) - Background

MAP2K2 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. The inhibition or degradation of this kinase is found to be involved in the pathogenesis of Yersinia and anthrax.

#### **MEK2 (MAP2K2) Antibody (N-term) - References**

- Burroughs, K.D., et al., Mol. Cancer Res. 1(4):312-322 (2003).  
Tran, H., et al., Mol. Cell. Biol. 23(20):7177-7188 (2003).  
Li, S.P., et al., Cancer Res. 63(13):3473-3477 (2003).  
Li, Y., et al., J. Biol. Chem. 278(16):13663-13671 (2003).  
Liu, X., et al., J. Biol. Chem. 277(42):39312-39319 (2002).