

**Mouse Map4k4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14459C**

**Specification**

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**Mouse Map4k4 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P97820</a>
Other Accession	<a href="#">NP_032722.2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	140602
Antigen Region	506-534

**Mouse Map4k4 Antibody (Center) - Additional Information**

**Gene ID** 26921

**Other Names**

Mitogen-activated protein kinase kinase kinase kinase 4, HPK/GCK-like kinase HGK, MAPK/ERK kinase kinase kinase 4, MEK kinase kinase 4, MEKKK 4, Nck-interacting kinase, Map4k4, Nik

**Target/Specificity**

This Mouse Map4k4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 506-534 amino acids from the Central region of mouse Map4k4.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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**

Mouse Map4k4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Map4k4 Antibody (Center) - Protein Information**

**Name** Map4k4

## Synonyms Nik

**Function** Serine/threonine kinase that plays a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway (PubMed:[10669731](#), PubMed:[9135144](#)). Activator of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. MAP4Ks act in parallel to and are partially redundant with STK3/MST2 and STK4/MST2 in the phosphorylation and activation of LATS1/2, and establish MAP4Ks as components of the expanded Hippo pathway. Phosphorylates SMAD1 on Thr- 322 (By similarity).

## Cellular Location

Cytoplasm.

## Tissue Location

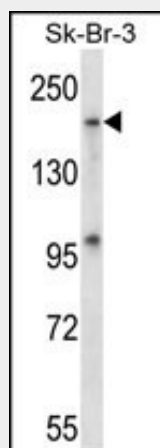
Appears to be ubiquitous, expressed in all tissue types examined. Highest levels observed in heart and brain

## Mouse Map4k4 Antibody (Center) - Protocols

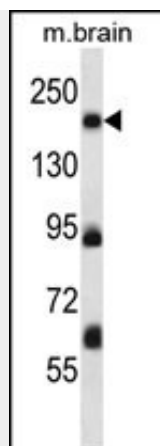
Provided below are standard protocols that you may find useful for product applications.

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

## Mouse Map4k4 Antibody (Center) - Images



Mouse Map4k4 Antibody (Center) (Cat. #AP14459c) western blot analysis in SK-BR-3 cell line lysates (35ug/lane). This demonstrates the Map4k4 antibody detected the Map4k4 protein (arrow).



Mouse Map4k4 Antibody (Center) (Cat. #AP14459c) western blot analysis in mouse brain tissue lysates (35ug/lane). This demonstrates the Map4k4 antibody detected the Map4k4 protein (arrow).

#### **Mouse Map4k4 Antibody (Center) - Background**

Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway.

#### **Mouse Map4k4 Antibody (Center) - References**

- Maruyama, T., et al. J. Bone Miner. Res. 25(5):1058-1067(2010)
- Guntur, K.V., et al. J. Biol. Chem. 285(9):6595-6603(2010)
- Aouadi, M., et al. Nature 458(7242):1180-1184(2009)
- Wittwer, T., et al. Biochem. Biophys. Res. Commun. 371(2):294-297(2008)
- Tesz, G.J., et al. J. Biol. Chem. 282(27):19302-19312(2007)