

**MEKK1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7907a**

**Specification**

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**MEKK1 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O13233</a>
Other Accession	<a href="#">P53349</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>1145-1176</b>

**MEKK1 Antibody (C-term) - Additional Information**

**Gene ID** 4214

**Other Names**

Mitogen-activated protein kinase kinase kinase 1, MAPK/ERK kinase kinase 1, MEK kinase 1, MEKK1, MAP3K1, MAPKKK1, MEKK, MEKK1

**Target/Specificity**

This MEKK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1145-1176 amino acids from the C-terminal region of human MEKK1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

MEKK1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MEKK1 Antibody (C-term) - Protein Information**

**Name** MAP3K1

**Synonyms** MAPKKK1, MEKK, MEKK1

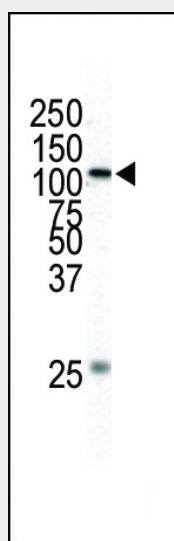
**Function** Component of a protein kinase signal transduction cascade (PubMed:[9808624](#)). Activates the ERK and JNK kinase pathways by phosphorylation of MAP2K1 and MAP2K4 (PubMed:[9808624](#)). May phosphorylate the MAPK8/JNK1 kinase (PubMed:[17761173](#)). Activates CHUK and IKBKB, the central protein kinases of the NF-kappa-B pathway (PubMed:[9808624](#)).

### MEKK1 Antibody (C-term) - Protocols

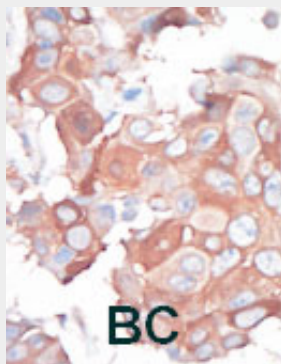
Provided below are standard protocols that you may find useful for product applications.

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

### MEKK1 Antibody (C-term) - Images



Western blot analysis of anti-MEKK1 Pab (Cat. #AP7907a) in HL-60 cell lysate. MEKK1 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **MEKK1 Antibody (C-term) - Background**

Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, *Drosophila*, and mammalian cells. MEKK1 can phosphorylate and activate MAPKK 1 and MAPKK 2 (MEK1/MEK2) which leads to phosphorylation of MAP kinases. It is also a highly efficient activator of the JNK cascade. The protein contains a putative 1 RING-type zinc finger and 1 SWIM-type zinc finger.

#### **MEKK1 Antibody (C-term) - References**

Xia, Y., et al., *Genes Dev.* 12(21):3369-3381 (1998).  
Vinik, B.S., et al., *Mamm. Genome* 6(11):782-783 (1995).