

MEKK1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7907a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q13233
Other Accession	P53349
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB00999
Calculated MW	164470
Antigen Region	1145-1176

Additional Information

Gene ID	4214
Other Names	Mitogen-activated protein kinase kinase kinase 1, MAPK/ERK kinase kinase 1, MEK kinase 1, MEKK 1, 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~~1:100~500 E~~Use at an assay dependent concentration.
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.

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](#)).

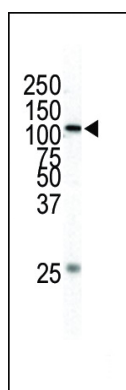
Background

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.

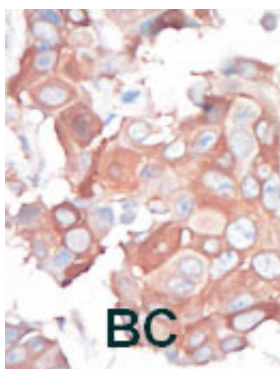
References

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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.