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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, Rat, Bovine, Canine, Rabbit, Chicken
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).

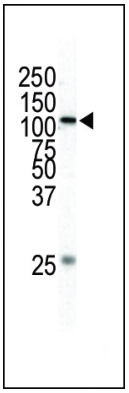
Background

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.

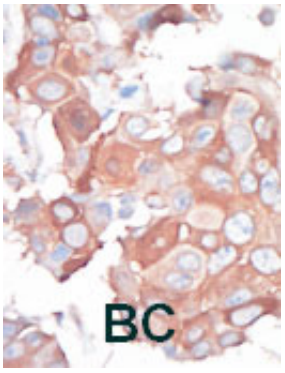
References

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'.