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MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 2F6]
Catalog # AH11803

Product Information

Application	WB, IHC, IF, FC
Primary Accession	Q13233
Other Accession	4214, 653654
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Clone Names	2F6
Calculated MW	164470

Additional Information

Gene ID	4214
Other Names	Mitogen-activated protein kinase kinase kinase 1, 2.7.11.25, MAPK/ERK kinase kinase 1, MEK kinase 1, MEKK 1, MAP3K1, MAPKKK1, MEKK, MEKK1
Application Note	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) Antibody - With BSA and Azide 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).

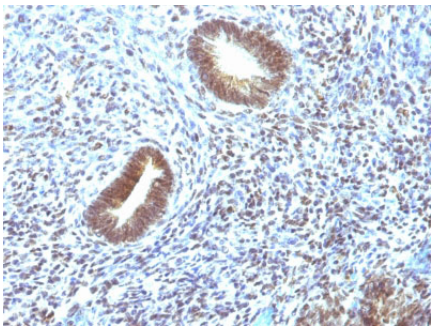
Background

Mitogen-activated protein (MAP) kinase cascades are activated by various extracellular stimuli, including growth factors. The MEK kinases (also designated MAP kinase kinase kinases, MKKKs, MAP3Ks or MEKKs) phosphorylate and thereby activate the MEKs (also called MAP kinase kinases or MKKs), including ERK, JNK and p38. These activated MEKs in turn phosphorylate and activate the MAP kinases. The MEK kinases include Raf-1, Raf-B, Mos, MEK kinase-1, MEK kinase-2, MEK kinase-3, MEK kinase-4 and ASK 1 (MEK kinase- 5). MEK kinase-1 activates the ERK and c-Jun NH2-terminal kinase (JNK) pathways by phosphorylation of MAP2K1 and MAP2K4, and also activates the central protein kinases of the NF □□B pathway, CHUK and IKBKB. Additionally, MEK kinase-1 uses an E3 ligase through its PHD domain, a RING-finger-like structure, to target proteins for degradation through ubiquitination.

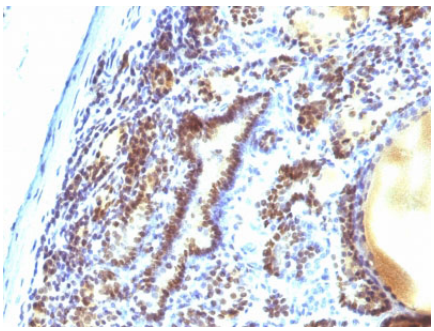
References

Guan, K.L. 1994. The mitogen activated protein kinase signal transduction pathway: from the cell surface to the nucleus. Cell. Signal. 6: 581-589

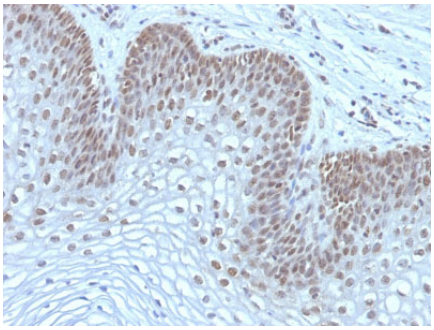
Images



Formalin-fixed, paraffin-embedded human Uterine Carcinoma stained with MAP3K1 Monoclonal Antibody (2F6).



Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with MAP3K1 Monoclonal Antibody (2F6).



Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with MAP3K1 Monoclonal Antibody (2F6).