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MAP3K2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1623a

Product Information

Application	WB, ICC, E
Primary Accession	Q9Y2U5
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4B4
Isotype	IgG1
Calculated MW	69741
Description	The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase preferentially activates other kinases involved in the MAP kinase signaling pathway. This kinase has been shown to directly phosphorylate and activate Ikappa B kinases, and thus plays a role in NF-kappa B signaling pathway. This kinase has also been found to bind and activate protein kinase C-related kinase 2, which suggests its involvement in a regulated signaling process.
Immunogen	Purified recombinant fragment of human MAP3K2 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	10746
Other Names	Mitogen-activated protein kinase kinase kinase 2, 2.7.11.25, MAPK/ERK kinase kinase 2, MEK kinase 2, MEKK 2, MAP3K2, MAPKKK2, MEKK2
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAP3K2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAP3K2

Synonyms	MAPKKK2, MEKK2
Function	Component of a protein kinase signal transduction cascade. Regulates the JNK and ERK5 pathways by phosphorylating and activating MAP2K5 and MAP2K7 (By similarity). Plays a role in caveolae kiss-and- run dynamics.
Cellular Location	Cytoplasm. Nucleus. Note=Upon EGF stimulation, translocates into the nucleus

References

1. Clin Cancer Res. 2009 Sep 1;15(17):5541-51. 2. J Biol Chem. 2009 May 15;284(20):13533-41.

Images

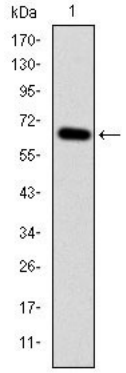

Figure 1: Western blot analysis using MAP3K2 mAb against human MAP3K2 (AA: 148-359) recombinant protein. (Expected MW is 49.2 kDa)

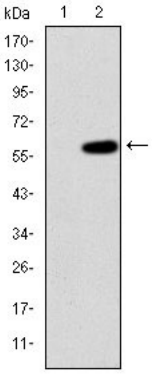

Figure 2: Western blot analysis using MAP3K2 mAb against HEK293 (1) and MAP3K2(AA: 148-359)--hIgGFc transfected HEK293 (2) cell lysate.

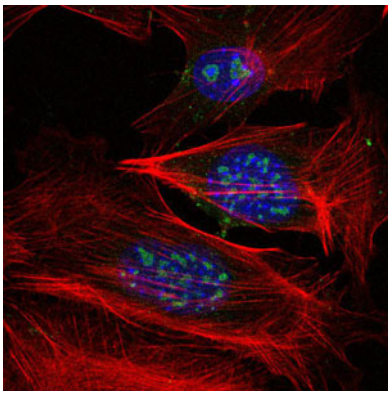

Figure 3: Immunofluorescence analysis of 3T3-L1 cells using MAP3K2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.