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MEK3 Rabbit mAb

Catalog # AP75709

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	P46734
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	39318

Additional Information

Gene ID	5606
Other Names	MAP2K3
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:200-1:1000 IP~~1:50-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

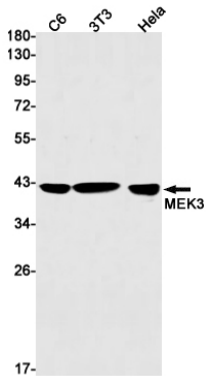
Name	MAP2K3
Synonyms	MEK3, MKK3, PRKMK3, SKK2
Function	Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.
Tissue Location	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues

Background

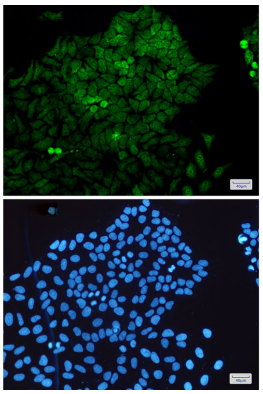
The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase

family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene.

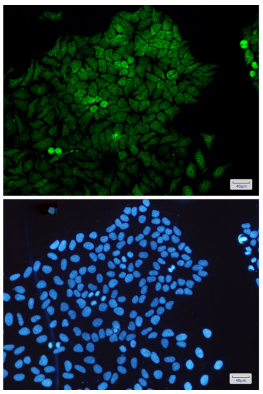
Images

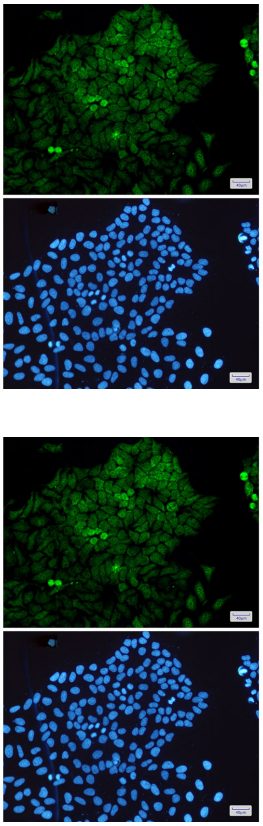


Western blot analysis of MEK3 in C6, 3T3, Hela lysates using MEK3 antibody.



Immunocytochemistry analysis of MEK3(green) in Hela using MEK3 antibody,and DAPI(blue)





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