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MAP2K3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2234a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P46734
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2E12D11
Isotype	IgG1
Calculated MW	39318
Description	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.
Immunogen	Purified recombinant fragment of human MAP2K3 (AA: 1-138) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	5606
Other Names	Dual specificity mitogen-activated protein kinase kinase 3, MAP kinase kinase 3, MAPKK 3, 2.7.12.2, MAPK/ERK kinase 3, MEK 3, Stress-activated protein kinase kinase 2, SAPK kinase 2, SAPKK-2, SAPKK2, MAP2K3, MEK3, MKK3, PRKMK3, SKK2
Dilution	WB~~1/500 - 1/2000 IHC~~1:100~500 FC~~1/200 - 1/400 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	MAP2K3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1.Hum Mol Genet. 2013 Nov 1;22(21):4438-49.2.Proteomics Clin Appl. 2010 Nov;4(10-11):816-28.

Images