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MAFK Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8420b

Product Information

Application	WB, FC, E
Primary Accession	O60675
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,κ
Clone Names	1328CT786.105.125
Calculated MW	17523

Additional Information

Gene ID	7975
Other Names	Transcription factor MafK, Erythroid transcription factor NF-E2 p18 subunit, MAFK
Target/Specificity	This MAFK antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human MAFK.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	MAFK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAFK
Function	Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves (PubMed:9150357). However, they act as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins, such as NFE2,

NFE2L1/NRF1, NFE2L2/NRF2 and NFE2L3/NRF3, and recruiting them to specific DNA-binding sites (PubMed:8932385, PubMed:9150357). Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor (PubMed:9150357).

Cellular Location Nucleus.

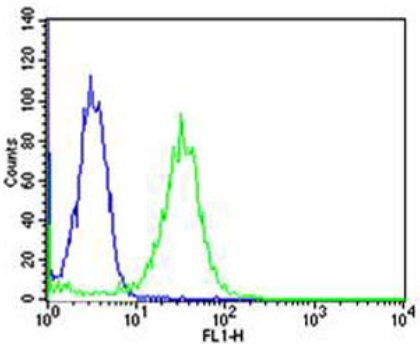
Background

Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves. However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins and recruiting them to specific DNA-binding sites. Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor.

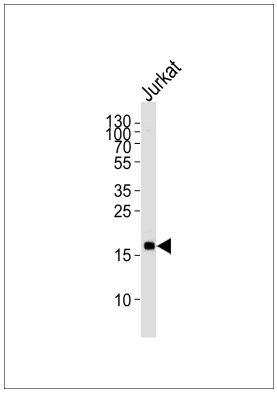
References

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Daub H.,et al.Mol. Cell 31:438-448(2008).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).

Images



Flow cytometric analysis of Hela cells using MAFK Antibody(green, Cat#AM8420b) compared to an isotype control of mouse IgG1(blue). AM8420b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.



Western blot analysis of lysate from Jurkat cell line, using MAFK Antibody(Cat. #AM8420b). AM8420b was diluted at 1:1000. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysate at 35µg.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.