

**MAFK Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8420b****Specification**

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**MAFK Antibody - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O60675</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1, $\kappa$
Calculated MW	17523

**MAFK Antibody - 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

**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.

**MAFK Antibody - 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](#)).

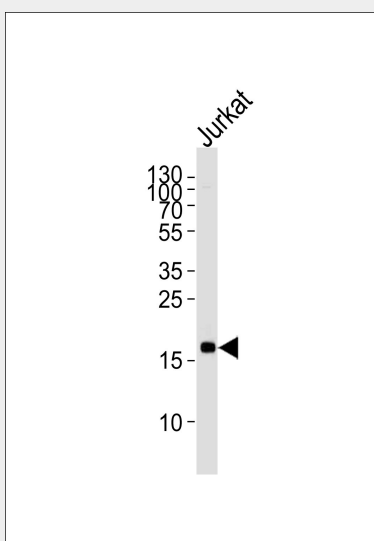
**Cellular Location**

Nucleus.

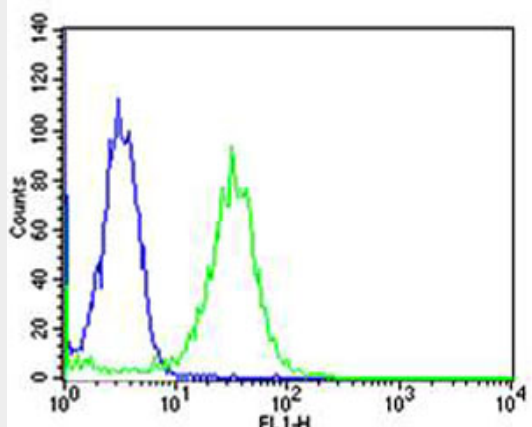
**MAFK Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MAFK Antibody - Images**

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.



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 IgG at 1:400 dilution was used as the secondary antibody.

### MAFK Antibody - 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.

### MAFK Antibody - References

- Toki T.,et al.Oncogene 14:1901-1910(1997).
- Hillier L.W.,et al.Nature 424:157-164(2003).
- 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).