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

## Specification

### MAFK Antibody - Product Information

| | |
|---|---|
| Application | **FC, WB,E** |
| Primary Accession | O60675 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1,κ** |
| 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**
FC~~1:25
WB~~1:1000
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.

### 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).

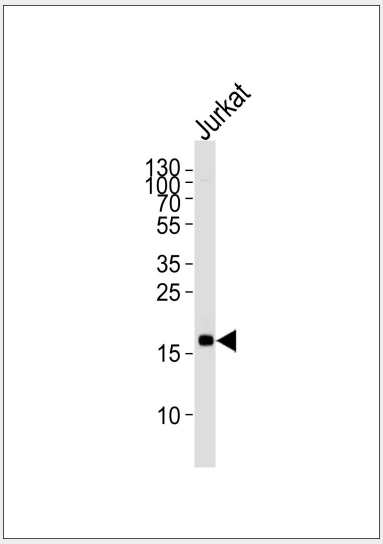
**Cellular Location**
Nucleus.

## 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 Cytomety
- 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.

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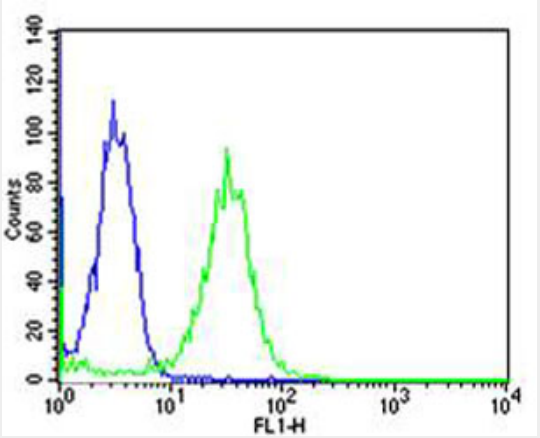


Flow cytometric analysis of Hela cells using MAFK Antibody(green, Cat#AM8420b) compared to an isotype control of mouse IgG1(blue). AM8420b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

**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).