

Human MafK antibody

Catalog Number: ATGA0246

PRODUCT INFORMATION

Catalog number

ATGA0246

Clone No.

AT2F7

Product type

Monoclonal Antibody

UnitProt No.

O60675

NCBI Accession No.

NP_002351

Alternative Names

Transcription factor MafK, NFE2u, P18

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human MAFK (1-156aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

The developmentally regulated expression of the globin genes depends on upstream regulatory elements termed locus control regions (LCRs). LCRs are associated with powerful enhancer activity that is mediated by the transcription factor NFE2 (nuclear factor erythroid-2). NFE2 DNA-binding activity consists of a heterodimer containing an 18-kD Maf protein (MafF, MafG or MafK) and p45. Since Maf homodimers 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. The MafK of Maf proteins is primarily expressed during development in mesenchymal and hematopoietic cells and neurons.

General References

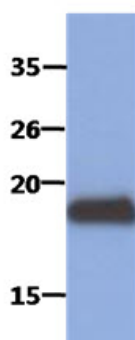
Oyake, T., et al. (1996) Mol Cell Biol 16(11): 6083-95.

Toki, T., et al. (1997) Oncogene 14: 1901-1910.

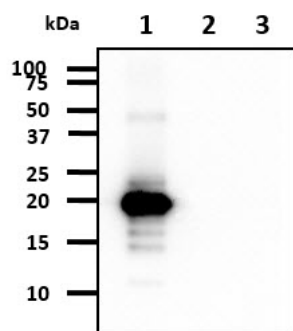
DATA

Western blot analysis (WB)

Jurkat



The cell lysate of Jurkat (30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MAFK antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MAFK antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1. : Recombinant Human MAFK
Lane 2. : Recombinant Human MAFG
Lane 3. : Recombinant Human MAFF