

ARG57016
anti-MAFK antibody [2F7]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2F7] recognizes MAFK
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	2F7
Isotype	IgG2a, kappa
Target Name	MAFK
Species	Human
Immunogen	Recombinant fragment around aa. 1-156 of Human MAFK.
Conjugation	Un-conjugated
Alternate Names	P18; NFE2U; Transcription factor MafK; Erythroid transcription factor NF-E2 p18 subunit

Application Instructions

Application table	Application	Dilution
	WB	1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 7975 Human](#)

[Swiss-port # O60675 Human](#)

Gene Symbol

MAFK

Gene Full Name

v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K

Background

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 recognition sites are also present in the gene promoters of 2 heme biosynthetic enzymes, porphobilinogen deaminase (PBGD; MIM 609806) and ferrochelatase (FECH; MIM 612386). NFE2 DNA-binding activity consists of a heterodimer containing an 18-kD Maf protein (MafF, MafG (MIM 602020), or MafK) and p45 (MIM 601490). Both subunits are members of the activator protein-1 superfamily of basic leucine zipper (bZIP) proteins (see MIM 165160). Maf homodimers suppress transcription at NFE2 sites.[supplied by OMIM, Nov 2008]

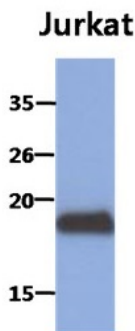
Function

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. [UniProt]

Calculated Mw

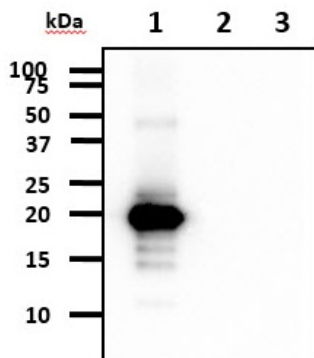
18 kDa

Images



ARG57016 anti-MAFK antibody [2F7] WB image

Western blot: 30 µg of Jurkat cell lysate stained with ARG57016 anti-MAFK antibody [2F7] at 1:1000.



ARG57016 anti-MAFK antibody [2F7] WB image

Western blot: 20 ng of 1) Recombinant Human MAFK, 2) Recombinant Human MAFG, 3) Recombinant Human MAFF stained with ARG57016 anti-MAFK antibody [2F7] at 1:1000.