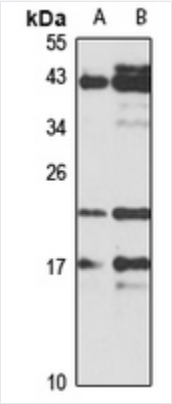
MAFK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAFK, Polyclonal Antibody
Full Product Name	Anti-MAFK Antibody
Product Gene Name	anti-MAFK antibody
Product Synonym Names	Transcription factor MafK; Erythroid transcription factor NF-E2 p18 subunit
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of MAFK protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	17,523 Da
OMIM	600197
3D Structure	ModBase 3D Structure for O60675
Immunogen	KLH-conjugated synthetic peptide of human MAFK. The exact sequence is proprietary.
Applications Tested/Suitable for anti-MAFK antibody	Western Blot (WB)
Application Notes for anti-MAFK antibody	WB: 1:500-1:2000
Related Product Information for anti-MAFK antibody	MBS8307199 is an antibody targeting MAFK. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to MAFK
Other Notes	Small volumes of anti-MAFK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MAFK antibody
Western blot analysis of MAFK expression in LO2 (A) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAFK. It may not necessarily be applicable to this product.

NCBI GI #	4505075
NCBI GeneID	7975
NCBI Accession #	NP_002351.1
UniProt Primary Accession #	O60675
UniProt Secondary Accession #	A4D214
UniProt Related Accession #	O60675
GenBank Nucleotide #	NM_002360.3
NCBI Official Full Name	transcription factor MafK
NCBI Official Synonym Full Names	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K
NCBI Official Symbol	MAFK
NCBI Official Synonym Symbols	P18; NFE2U
UniProt Protein Name	Transcription factor MafK
UniProt Synonym Protein Names	Erythroid transcription factor NF-E2 p18 subunit
Protein Family	Transcription factor
UniProt Gene Name	MAFK
UniProt Entry Name	MAFK_HUMAN
NCBI Protein Information	transcription factor MafK; basic-leucine zipper transcription factor MafK; erythroid transcription factor NF-E2 p18 subunit; nuclear factor erythroid-2, ubiquitous (p18); v-maf avian musculoaponeurotic fibrosarcoma oncogene family, protein K; v-maf muscul
NCBI Summary for MAFK	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]
UniProt Comments for MAFK	MAFK: 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. Belongs to the bZIP family. Maf subfamily. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 7p22.3 Cellular Component: nucleoplasm Molecular Function: transcription factor activity Biological Process: nervous system development; regulation of transcription, DNA-dependent; transcription, DNA-dependent; blood coagulation
Research Articles on MAFK	**1.** Results suggest that JDP2 is an integral component of the Nrf2-MafK complex and that it modulates antioxidant and detoxification programs by acting via the ARE.

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