

MAFG Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17800A**Specification**

MAFG Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O15525
Other Accession	O54790 , O90889 , A5PJV0 , NP_116100.2
Reactivity	Human, Mouse
Predicted	Bovine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17850
Antigen Region	1-30

MAFG Antibody (N-term) - Additional Information**Gene ID** 4097**Other Names**

Transcription factor MafG, V-maf musculoaponeurotic fibrosarcoma oncogene homolog G, hMAF, MAFG

Target/Specificity

This MAFG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MAFG.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

MAFG Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAFG Antibody (N-term) - Protein Information**Name** MAFG

Function Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves (PubMed:[11154691](#)). However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins, such as NFE2, NFE2L1 and NFE2L2, and recruiting them to specific DNA-binding sites (PubMed:[11154691](#), PubMed:[8932385](#), PubMed:[9421508](#)). Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NFE2L2 transcription factor (PubMed:[11154691](#)). Transcription factor, component of erythroid- specific transcription factor NFE2L2 (PubMed:[11154691](#)). Activates globin gene expression when associated with NFE2L2 (PubMed:[11154691](#)). May be involved in signal transduction of extracellular H(+) (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:11154691}

Tissue Location

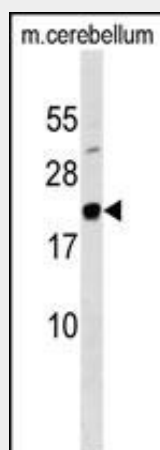
Highly expressed in skeletal muscle. Also expressed in heart and brain

MAFG Antibody (N-term) - 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](#)

MAFG Antibody (N-term) - Images



MAFG Antibody (N-term) (Cat. #AP17800a) western blot analysis in mouse cerebellum tissue lysates (35ug/lane). This demonstrates the MAFG antibody detected the MAFG protein (arrow).

MAFG Antibody (N-term) - Background

Globin gene expression is regulated through nuclear factor erythroid-2 (NFE2) elements located in enhancer-like locus control regions positioned many kb upstream of alpha- and beta-gene clusters (summarized by Blank et al., 1997 [PubMed 9166829]). NFE2

DNA-binding activity consists of a heterodimer containing a ubiquitous small Maf protein (MafF, MIM 604877; MafG; or MafK, MIM 600197) and the tissue-restricted protein p45 NFE2 (MIM 601490). Both subunits are members of the activator protein-1-like superfamily of basic leucine zipper (bZIP) proteins (see MIM 165160).

MAFG Antibody (N-term) - References

Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :
Berg, D.T., et al. J. Biol. Chem. 282(51):36837-36844(2007)
Yamamoto, T., et al. Genes Cells 11(6):575-591(2006)
Stelzl, U., et al. Cell 122(6):957-968(2005)
Tramier, M., et al. Biophys. J. 83(6):3570-3577(2002)