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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, Q90889, 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}

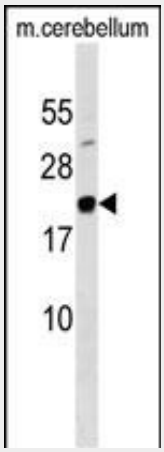
Tissue Location
Highly expressed in skeletal muscle. Also expressed in heart and brain

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 Cytomety
- 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) :
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Stelzl, U., et al. Cell 122(6):957-968(2005)
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