

MAFG Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57180**Specification****MAFG Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	015525
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAFG
Epitope Specificity	1-100/162
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the bZIP family. Maf subfamily. Contains 1 bZIP domain.
Post-translational modifications	Acetylated in erythroid cells by CREB-binding protein (CBP). Acetylation augments the DNA-binding activity of NFE2, but has no effect on binding NFE2. Sumoylation at Lys-14 is required for active transcriptional repression.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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).[supplied by OMIM, Mar 2010]

MAFG Polyclonal Antibody - Additional Information**Gene ID 4097****Other Names**

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

MAFG

Target/Specificity

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

Dilution

WB~~1:1000
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

MAFG Polyclonal Antibody - 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

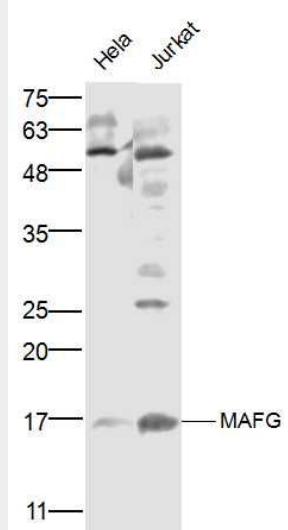
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MAFG Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images**Sample:**

HeLa(Human) Cell Lysate at 40 ug

Jurkat(Human) Cell Lysate at 40 ug

Primary: Anti-MAFG (bs-18615R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18 kD

Observed band size: 18 kD