

**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	<a href="#">O15525</a>
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
<b>Purity</b>	
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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/11154691), PubMed:[8932385](http://www.uniprot.org/citations/8932385), PubMed:[9421508](http://www.uniprot.org/citations/9421508)). Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NFE2L2 transcription factor (PubMed:[11154691](http://www.uniprot.org/citations/11154691)). Transcription factor, component of erythroid- specific transcription factor NFE2L2 (PubMed:[11154691](http://www.uniprot.org/citations/11154691)). Activates globin gene expression when associated with NFE2L2 (PubMed:[11154691](http://www.uniprot.org/citations/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

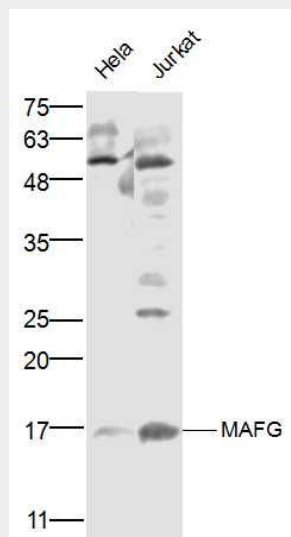
Highly expressed in skeletal muscle. Also expressed in heart and brain

## MAFG 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