

MAFG Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17800a**Specification**

MAFG Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O15525](#)**MAFG Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4097**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MAFG Antibody (N-term) Blocking Peptide - 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:8932385, PubMed:9421508, PubMed:11154691). 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) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MAFG Antibody (N-term) Blocking Peptide - Images**MAFG Antibody (N-term) Blocking Peptide - Background**

Globin gene expression is regulated through nuclear factorerythroid-2 (NFE2) elements located in enhancer-like locus controlregions positioned many kb upstream of alpha- and beta-geneclusters (summarized by Blank et al., 1997 [PubMed 9166829]). NFE2DNA-binding activity consists of a heterodimer containing aubiquitous small Maf protein (MafF, MIM 604877; MafG; or MafK, MIM600197) and the tissue-restricted protein p45 NFE2 (MIM 601490).Both subunits are members of the activator protein-1-likesuperfamily of basic leucine zipper (bZIP) proteins (see MIM165160).

MAFG Antibody (N-term) Blocking Peptide - 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)