MAFK Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MAFK, Blocking Peptide
Full Product Name	MAFK Blocking Peptide
Product Gene Name	MAFK blocking peptide
Product Synonym Names	Erythroid transcription factor NF E2 p18 subunit; Erythroid transcription factor NF-E2 p18 subunit; FLJ32205; MAFK; MAFK_HUMAN; MGC71717; Nfe2u; P18; Transcription factor MafK; V maf musculoaponeurotic fibrosarcoma oncogene homolog K (avian)
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MAFK peptide (MBS9622186) is used for blocking the activity of MAFK antibody (MBS9612242)
Molecular Weight	17,523 Da
OMIM	600197
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MAFK blocking peptide	Blocking/Control
Related Product Information for MAFK blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of MAFK blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MAFK purchase	MBS9622186 is a blocking peptide targeting MAFK.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAFK. It may not necessarily be applicable to this product.

NCBI GI #	4505075
NCBI GeneID	7975
NCBI Accession #	NP_002351.1
UniProt Primary Accession #	O60675
UniProt Secondary Accession #	A4D214

UniProt Related Accession #	O60675
GenBank Nucleotide #	NP_002351.1
NCBI Official Full Name	transcription factor MafK
NCBI Official Synonym Full Names	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K
NCBI Official Symbol	MAFK
NCBI Official Synonym Symbols	P18; NFE2U
UniProt Protein Name	Transcription factor MafK
UniProt Synonym Protein Names	Erythroid transcription factor NF-E2 p18 subunit
Protein Family	Transcription factor
UniProt Gene Name	MAFK
UniProt Entry Name	MAFK_HUMAN
NCBI Protein Information	transcription factor MafK; basic-leucine zipper transcription factor MafK; erythroid transcription factor NF-E2 p18 subunit; nuclear factor erythroid-2, ubiquitous (p18); v-maf avian musculoaponeurotic fibrosarcoma oncogene family, protein K; v-maf muscul
NCBI Summary for MAFK	The developmentally regulated expression of the globin genes depends on upstream regulatory elements termed locus control regions (LCRs). LCRs are associated with powerful enhancer activity that is mediated by the transcription factor NFE2 (nuclear factor erythroid-2). NFE2 recognition sites are also present in the gene promoters of 2 heme biosynthetic enzymes, porphobilinogen deaminase (PBGD; MIM 609806) and ferrochelatase (FECH; MIM 612386). NFE2 DNA-binding activity consists of a heterodimer containing an 18-kD Maf protein (MafF, MafG (MIM 602020), or MafK) and p45 (MIM 601490). Both subunits are members of the activator protein-1 superfamily of basic leucine zipper (bZIP) proteins (see MIM 165160). Maf homodimers suppress transcription at NFE2 sites.[supplied by OMIM, Nov 2008]
UniProt Comments for MAFK	MAFK: Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves. However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins and recruiting them to specific DNA-binding sites. Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor. Belongs to the bZIP family. Maf subfamily. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 7p22.3 Cellular Component: nucleoplasm Molecular Function: transcription factor activity Biological Process: nervous system development; regulation of transcription, DNA-dependent; transcription, DNA-dependent; blood coagulation
Research Articles on MAFK	**1.** Results suggest that JDP2 is an integral component of the Nrf2-MafK complex and that it modulates antioxidant and detoxification programs by acting via the ARE.
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