EIF3K Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	EIF3K, Blocking Peptide
Full Product Name	EIF3K Antibody (C-term) Blocking Peptide
Product Gene Name	EIF3K blocking peptide
Product Synonym Names	Eukaryotic translation initiation factor 3 subunit K ; eIF3k ; Eukaryotic translation initiation factor 3 subunit 12 ; Muscle-specific gene M9 protein; PLAC-24; eIF-3 p25 ; eIF-3 p28; EIF3K
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 1 mg/ml.
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	EIF3K peptide (MBS9222003) is used for blocking the activity of EIF3K antibody (MBS9213303)
Molecular Weight	24,484 Da
OMIM	609596
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Ubiquitous, with the highest levels of expression in brain, testis and kidney
Related Product Information for EIF3K blocking peptide	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation.
Other Notes	Small volumes of EIF3K 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 EIF3K purchase	MBS9222003 is a blocking peptide targeting EIF3K. Also known as EIF3K Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3K. It may not necessarily be applicable to this product.

NCBI GI #	23396628
NCBI GeneID	27335
NCBI Accession #	Q9UBQ5.1
UniProt Primary Accession #	Q9UBQ5
UniProt Secondary Accession #	Q96IQ0; Q9Y6D1; A8K0I9; B7ZAM9
UniProt Related Accession #	Q9UBQ5
NCBI Official Full Name	Eukaryotic translation initiation factor 3 subunit K
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3 subunit K
NCBI Official Symbol	EIF3K
NCBI Official Synonym Symbols	M9; ARG134; PLAC24; PTD001; EIF3S12; HSPC029; MSTP001; PLAC-24; PRO1474; EIF3-p28

UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit K
UniProt Synonym Protein Names	Eukaryotic translation initiation factor 3 subunit 12
Protein Family	Eukaryotic translation initiation factor
UniProt Gene Name	EIF3K
UniProt Synonym Gene Names	eIF3k
UniProt Entry Name	EIF3K_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 3 subunit K
NCBI Summary for EIF3K	The 700-kD eukaryotic translation initiation factor-3 (eIF3) is the largest eIF and contains at least 12 subunits, including EIF2S12. eIF3 plays an essential role in translation by binding directly to the 40S ribosomal subunit and promoting formation of the 40S preinitiation complex (Mayeur et al., 2003 [PubMed 14519125]).[supplied by OMIM, Mar 2008]
UniProt Comments for EIF3K	EIF3K: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Belongs to the eIF-3 subunit K family. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: cytoplasm; cytosol; eukaryotic translation initiation factor 3 complex; membrane Molecular Function: protein binding; translation initiation factor activity Biological Process: translational initiation
Research Articles on EIF3K	**1.** eIF3K subunit interacts directly with the PML protein.
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