10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EIF3K Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16788b

Specification

EIF3K Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9UBQ5

EIF3K Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 27335

Other Names
Eukaryotic translation initiation factor 3 subunit K {ECO:0000255|HAMAP-Rule:MF_03010}, eIF3k {ECO:0000255|HAMAP-Rule:MF_03010}, Eukaryotic translation initiation factor 3 subunit 12 {ECO:0000255|HAMAP-Rule:MF_03010}, Muscle-specific gene M9 protein, PLAC-24, eIF-3 p25 {ECO:0000255|HAMAP-Rule:MF_03010}, eIF-3 p28, EIF3K {ECO:0000255|HAMAP-Rule:MF_03010}

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.

EIF3K Antibody (C-term) Blocking Peptide - Protein Information

Name EIF3K {ECO:0000255|HAMAP-Rule:MF_03010}

Function
Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). 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 pre-initiation 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 (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:<a href="http://www.uniprot.org/citations/25849773"

target="_blank">25849773).

Cellular Location
Nucleus {ECO:0000255|HAMAP-Rule:MF_03010, ECO:0000269|PubMed:15327989}. Cytoplasm {ECO:0000255|HAMAP- Rule:MF_03010, ECO:0000269|PubMed:15327989}

Tissue Location
Ubiquitous, with the highest levels of expression in brain, testis and kidney.

EIF3K Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

EIF3K Antibody (C-term) Blocking Peptide - Images

EIF3K Antibody (C-term) Blocking Peptide - Background

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 bybinding directly to the 40S ribosomal subunit and promotingformation of the 40S preinitiation complex (Mayeur et al., 2003[PubMed 14519125]).

EIF3K Antibody (C-term) Blocking Peptide - References

Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008)Lin, Y.M., et al. J. Cell. Sci. 121 (PT 14), 2382-2393 (2008) :Masutani, M., et al. EMBO J. 26(14):3373-3383(2007)Damoc, E., et al. Mol. Cell Proteomics 6(7):1135-1146(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :