

EIF3K Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16788b**Specification****EIF3K Antibody (C-term) Blocking Peptide -
Product Information**Primary Accession [Q9UBO5](#)**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}

**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) :

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-tRNA_i 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: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](#)