

EIF3E Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19409c**Specification****EIF3E Antibody(Center) Blocking peptide -
Product Information**Primary Accession [P60228](#)**EIF3E Antibody(Center) Blocking peptide -
Additional Information**

Gene ID 3646

Other Names

Eukaryotic translation initiation factor 3
subunit E
{ECO:0000255|HAMAP-Rule:MF_03004},
eIF3e
{ECO:0000255|HAMAP-Rule:MF_03004},
Eukaryotic translation initiation factor 3
subunit 6
{ECO:0000255|HAMAP-Rule:MF_03004},
Viral integration site protein INT-6 homolog,
eIF-3 p48
{ECO:0000255|HAMAP-Rule:MF_03004},
EIF3E
{ECO:0000255|HAMAP-Rule:MF_03004}

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.

**EIF3E Antibody(Center) Blocking peptide -
Protein Information**

Name EIF3E
{ECO:0000255|HAMAP-Rule:MF_03004}

**EIF3E Antibody(Center) Blocking peptide -
Background**

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
posttermination ribosomal complexes and
subsequently prevents premature joining of
the 40S and 60S ribosomal subunits prior to
initiation. Required for nonsense-mediated
mRNA decay (NMD); may act in conjunction
with UPF2 to divert mRNAs from translation to
the NMD pathway. May interact with MCM7 and
EPAS1 and regulate the proteasome-mediated
degradation of these proteins.

**EIF3E Antibody(Center) Blocking peptide -
References**

Grzmil, M., et al. *Oncogene*
29(28):4080-4089(2010)Zhou, M., et al. *Proc.*
Natl. Acad. Sci. U.S.A.
105(47):18139-18144(2008)Masutani, M., et al.
EMBO J. 26(14):3373-3383(2007)Morris, C., et
al. *EMBO Rep.* 8(6):596-602(2007)Sirchia, R.,
et al. *Biol. Chem.* 388(5):457-465(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](http://www.uniprot.org/citations/17581632)), PubMed:[25849773](http://www.uniprot.org/citations/25849773), PubMed:[27462815](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/25849773)). Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway (PubMed:[17468741](http://www.uniprot.org/citations/17468741)). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed:[17310990](http://www.uniprot.org/citations/17310990)), PubMed:[17324924](http://www.uniprot.org/citations/17324924)).

Cellular Location

Cytoplasm. Nucleus, PML body.

Tissue Location

Ubiquitously expressed. Expressed at

highest levels in appendix, lymph,
pancreas, skeletal muscle, spleen and
thymus

EIF3E Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)