

EIF3A Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12955b**Specification**

EIF3A Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q14152](#)**EIF3A Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 8661**Other Names**

Eukaryotic translation initiation factor 3 subunit A {ECO:0000255|HAMAP-Rule:MF_03000}, eIF3a {ECO:0000255|HAMAP-Rule:MF_03000}, Eukaryotic translation initiation factor 3 subunit 10 {ECO:0000255|HAMAP-Rule:MF_03000}, eIF-3-theta {ECO:0000255|HAMAP-Rule:MF_03000}, eIF3 p167, eIF3 p180, eIF3 p185, EIF3A {ECO:0000255|HAMAP-Rule:MF_03000}

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.

EIF3A Antibody (C-term) Blocking peptide - Protein Information**Name** EIF3A {ECO:0000255|HAMAP-Rule:MF_03000}**Function**

RNA-binding 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). 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, PubMed:11169732). 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).

target="_blank">25849773, PubMed:27462815).

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03000, ECO:0000269|PubMed:9150439}

EIF3A Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

EIF3A Antibody (C-term) Blocking peptide - Images

EIF3A Antibody (C-term) 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.

EIF3A Antibody (C-term) Blocking peptide - References

Enchev, R.I., et al. Structure 18(4):518-527(2010) Couch, F.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(1):251-257(2010) Dong, Z., et al. Exp. Cell Res. 315(11):1889-1894(2009) Zhou, M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18139-18144(2008) Martineau, Y., et al. Mol. Cell. Biol. 28(21):6658-6667(2008)