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EIF3C Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16361c

Specification

EIF3C Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99613

EIF3C Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8663

Other Names
Eukaryotic translation initiation factor 3 subunit C {ECO:0000255|HAMAP-Rule:MF_03002}, eIF3c {ECO:0000255|HAMAP-Rule:MF_03002}, Eukaryotic translation initiation factor 3 subunit 8 {ECO:0000255|HAMAP-Rule:MF_03002}, eIF3 p110 {ECO:0000255|HAMAP-Rule:MF_03002}, EIF3C {ECO:0000255|HAMAP-Rule:MF_03002}

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.

EIF3C Antibody (Center) Blocking Peptide - Protein Information

Name EIF3C {ECO:0000255|HAMAP-Rule:MF_03002}

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
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03002}.

EIF3C Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

EIF3C Antibody (Center) Blocking Peptide - Images

EIF3C 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.

EIF3C Antibody (Center) Blocking Peptide - References

Imielinski, M., et al. Nat. Genet. 41(12):1335-1340(2009)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)Damoc, E., et al. Mol. Cell Proteomics 6(7):1135-1146(2007)Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)