

EIF3C Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16361c**Specification**

EIF3C Antibody (Center) - Product Information

| | |
|-------------------|--|
| Application | WB,E |
| Primary Accession | Q99613 |
| Other Accession | B5ME19 , Q4QR58 , B5DFC8 , Q8R1B4 , Q3SYW6 , NP_001032897.1 , NP_003743.1 |
| Reactivity | Mouse |
| Predicted | Bovine, Rat, Xenopus, Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 105344 |
| Antigen Region | 538-566 |

EIF3C Antibody (Center) - 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}

Target/Specificity

This EIF3C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 538-566 amino acids from the Central region of human EIF3C.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

EIF3C Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3C Antibody (Center) - 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- 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

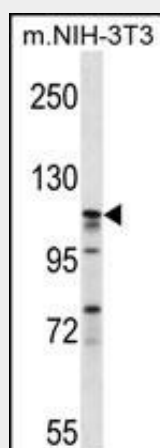
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03002}.

EIF3C Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EIF3C Antibody (Center) - Images



EIF3C Antibody (Center) (Cat. #AP16361c) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the EIF3C antibody detected the EIF3C protein (arrow).

EIF3C Antibody (Center) - 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-tRNA_i 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) - 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)