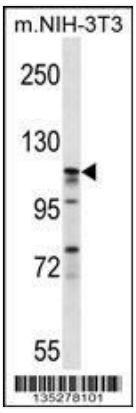
# EIF3C Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | EIF3C, Polyclonal Antibody |
| **Full Product Name** | EIF3C, ID (EIF3C, EIF3S8, Eukaryotic translation initiation factor 3 subunit C, Eukaryotic translation initiation factor 3 subunit 8, eIF3 p110) (FITC) |
| **Product Gene Name** | anti-EIF3C antibody |
| **Product Synonym Names** | EIF3C; EIF3S8; Eukaryotic translation initiation factor 3 subunit C; Eukaryotic translation initiation factor 3 subunit 8; eIF3 p110 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 104,101 Da |
| **OMIM** | 603916 |
| **3D Structure** | ModBase 3D Structure for Q99613 |
| **Immunogen** | EIF3C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 537-567 amino acids from the Central region of human EIF3C. |
| **Conjugate** | FITC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-EIF3C antibody** | Antibodies; Translation Initiation Factors |
| **Applications Tested/Suitable for anti-EIF3C antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-EIF3C antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-EIF3C antibody** | MBS6294987 is an antibody targeting EIF3C. Also known as EIF3C, ID (EIF3C, EIF3S8, Eukaryotic translation initiation factor 3 subunit C, Eukaryotic translation initiation factor 3 subunit 8, eIF3 p110) (FITC). Reactive in Mouse. Host: Rabbit. |
| **Product References and Citations for anti-EIF3C antibody** | 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). |

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| **Other Notes** | Small volumes of anti-EIF3C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-EIF3C antibody**
EIF3C Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the EIF3C antibody detected the EIF3C protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3C. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 83700233 |
| **NCBI GeneID** | 8663 |
| **NCBI Accession #** | NP_001032897.1 |
| **NCBI Related Accession #** | NP_003743.1 |
| **UniProt Primary Accession #** | Q99613 |
| **UniProt Secondary Accession #** | O00215; Q9BW98; A8K7Z0; B2RXG3; B4E1D5; H3BRV0 |
| **UniProt Related Accession #** | Q99613 |
| **GenBank Nucleotide #** | NM_001037808.2 |
| **NCBI Official Full Name** | eukaryotic translation initiation factor 3 subunit C isoform a |
| **NCBI Official Synonym Full Names** | eukaryotic translation initiation factor 3 subunit C |
| **NCBI Official Symbol** | EIF3C |
| **NCBI Official Synonym Symbols** | EIF3CL; EIF3S8; eIF3-p110 |
| **UniProt Protein Name** | Eukaryotic translation initiation factor 3 subunit C |
| **UniProt Synonym Protein Names** | Eukaryotic translation initiation factor 3 subunit 8; eIF3 p110 |
| **Protein Family** | Eukaryotic translation initiation factor |
| **UniProt Gene Name** | EIF3C |
| **UniProt Entry Name** | EIF3C_HUMAN |
| **NCBI Protein Information** | eukaryotic translation initiation factor 3 subunit C |

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| **UniProt Comments for EIF3C** | EIF3C: 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. Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is composed of 13 subunits: EIF3A, EIF3B, EIF3C, EIF3D, EIF3E, EIF3F, EIF3G, EIF3H, EIF3I, EIF3J, EIF3K, EIF3L and EIF3M. The eIF-3 complex appears to include 3 stable modules: module A is composed of EIF3A, EIF3B, EIF3G and EIF3I; module B is composed of EIF3F, EIF3H, and EIF3M; and module C is composed of EIF3C, EIF3D, EIF3E, EIF3K and EIF3L. EIF3C of module C binds EIF3B of module A and EIF3H of module B, thereby linking the three modules. EIF3J is a labile subunit that binds to the eIF-3 complex via EIF3B. The eIF-3 complex interacts with RPS6KB1 under conditions of nutrient depletion. Mitogenic stimulation leads to binding and activation of a complex composed of MTOR and RPTOR, leading to phosphorylation and release of RPS6KB1 and binding of EIF4B to eIF-3. Identified in a HCV IRES-mediated translation complex, at least composed of EIF3C, IGF2BP1, RPS3 and HCV RNA-replicon. Belongs to the eIF-3 subunit C family.<br><br>Protein type: RNA-binding; Translation; Translation initiation<br><br>Chromosomal Location of Human Ortholog: 16p11.2<br><br>Cellular Component: eukaryotic translation initiation factor 3 complex; cytosol<br><br>Molecular Function: protein binding; translation initiation factor binding; translation initiation factor activity<br><br>Biological Process: cellular protein metabolic process; translation; translational initiation; gene expression; formation of translation preinitiation complex; regulation of translational initiation |
| **Research Articles on EIF3C** | **1.** These findings suggest that eIF3c is overexpressed in human gliomas and essential for their proliferation and survival. |
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