EIF3C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

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) (MaxLight 650)
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial 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	MaxLight650
Note	Preservative Free
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 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF3C antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
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).

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.
Searchable Terms for EIF3C purchase	MBS6294992 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) (MaxLight 650). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

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

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. Protein type: RNA-binding; Translation; Translation initiation Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: eukaryotic translation initiation factor 3 complex; cytosol Molecular Function: protein binding; translation initiation factor binding; translation initiation factor activity 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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