EIF3J Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EIF3J, Polyclonal Antibody
Full Product Name	EIF3J Rabbit pAb
Product Gene Name	anti-EIF3J antibody
Product Synonym Names	EIF3S1; eIF3-p35; eIF3-alpha
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	37kDa
OMIM	603910
3D Structure	ModBase 3D Structure for O75822
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-258 of human EIF3J (NP_003749.2).
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EIF3J antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-EIF3J antibody	WB: 1:200-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-EIF3J antibody	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (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. 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).
Other Notes	Small volumes of anti-EIF3J 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 EIF3J purchase	MBS8548520 is an antibody targeting EIF3J. Also known as EIF3J Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3J. It may not necessarily be applicable to this product.

NCBI GI #	547235537
NCBI GeneID	8669
NCBI Accession #	NP_001271264.1
UniProt Primary Accession #	O75822
UniProt Related Accession #	O75822
GenBank Nucleotide #	NP_001271264.1
NCBI Official Full Name	eukaryotic translation initiation factor 3 subunit J isoform 2
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3 subunit J
NCBI Official Symbol	EIF3J
NCBI Official Synonym Symbols	EIF3S1; eIF3-p35; eIF3-alpha
UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit J
UniProt Synonym Protein Names	Eukaryotic translation initiation factor 3 subunit 1; eIF-3-alpha; eIF3 p35
Protein Family	Eukaryotic translation initiation factor
UniProt Gene Name	EIF3J
UniProt Entry Name	EIF3J_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 3 subunit J
NCBI Summary for EIF3J	This gene encodes a core subunit of the eukaryotic initiation factor 3 complex, which participates in the initiation of translation by aiding in the recruitment of protein and mRNA components to the 40S ribosome. There are pseudogenes for this gene on chromosomes 1, 3, and 9. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2013]
UniProt Comments for EIF3J	eIF3-alpha: 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. This subunit binds directly within the mRNA entry channel of the 40S ribosome to the aminoacyl (A) site. It may regulate the interaction between the 43S PIC and mRNA. 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. Belongs to the eIF-3 subunit J family. Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 15q21.1 Cellular Component: eukaryotic translation initiation factor 3 complex; cytosol Molecular Function: protein 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 EIF3J	**1.** CK2-phosphorylation of eIF3j at Ser127 promotes the assembly of the eIF3 complex, a crucial step in the activation of the translation initiation machinery.
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