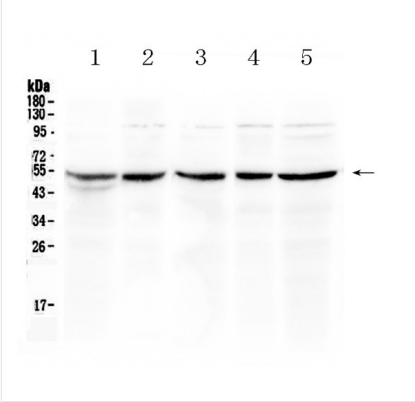
# EIF3E Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | EIF3e, Polyclonal Antibody |
| **Full Product Name** | Anti-EIF3e Picoband Antibody |
| **Product Gene Name** | anti-EIF3E antibody |
| **Product Synonym Names** | Eukaryotic translation initiation factor 3 subunit E; eIF3e; Eukaryotic translation initiation factor 3 subunit 6; Viral integration site protein INT-6 homolog; eIF-3 p48; EIF3E; EIF3S6; INT6 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat<br>No cross reactivity with other proteins. |
| **Form/Format** | Lyophilized |
| **Purity/Purification** | Immunogen affinity purified |
| **Concentration** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |
| **Molecular Weight** | 52221 MW |
| **OMIM** | U54562 mRNA |
| **3D Structure** | ModBase 3D Structure for P60228 |
| **Immunogen** | E Coli-derived human EIF3e recombinant protein (Position: A160-Q241). Human EIF3e shares 100% amino acid (aa) sequence identity with both mouse and rat EIF3e. |
| **Subcellular Localization** | Cytoplasm. Nucleus, PML body. |
| **Tissue Specificity** | Ubiquitously expressed. Expressed at highest levels in appendix, lymph, pancreas, skeletal muscle, spleen and thymus. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| **Contents** | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| **Product Categories/Family for anti-EIF3E antibody** | Epigenetics and Nuclear Signaling; DNA/RNA; Translation; Ribosome |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for anti-EIF3E antibody** | Western Blot (WB) |
| **Application Notes for anti-EIF3E antibody** | WB: 0.1-0.5mug/ml |

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| **Related Product Information for anti-EIF3E antibody** | Description: Eukaryotic translation initiation factor 3 subunit E is a protein that in humans is encoded by the EIF3E gene. The human homolog of EIF3E is located on chromosome region 8q22-q23. It is composed of 13 exons that span 45 kb of genomic DNA. EIF3E is the component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis ts localization/assembly. 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). And 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.<br>Protein Function: 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 post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Required for nonsense- mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins. |
| **Other Notes** | Small volumes of anti-EIF3E 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 EIF3E purchase** | MBS1750421 is an antibody targeting EIF3E. Also known as Anti-EIF3e Picoband Antibody. Reactive in Human, Mouse, Rat<br>No cross reactivity with other proteins.. Host: Rabbit. |




**Western Blot (WB) of anti-EIF3E antibody**
Figure 1. Western blot analysis of EIF3e using anti- EIF3e antibody (MBS1750421).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat thymus tissue lysates,Lane 2: mouse thymus tissue lysates,Lane 3: mouse spleen tissue lysates,Lane 4: COLO320 whole cell lysates,Lane 5: HELA whole Cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- EIF3e antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for EIF3e at approximately 52KD. The expected band size for EIF3e is at 52KD.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3E. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4503521 |
| **NCBI GeneID** | 3646 |
| **NCBI Accession #** | NP_001559.1 |

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| **UniProt Primary Accession #** | P60228 |
| **UniProt Secondary Accession #** | O43902; Q64058; Q64059; Q64252; Q6FG33; Q8WVK4 |
| **UniProt Related Accession #** | P60228 |
| **GenBank Nucleotide #** | NM_001568.2 |
| **NCBI Official Full Name** | eukaryotic translation initiation factor 3 subunit E |
| **NCBI Official Synonym Full Names** | eukaryotic translation initiation factor 3 subunit E |
| **NCBI Official Symbol** | EIF3E |
| **NCBI Official Synonym Symbols** | INT6; EIF3S6; EIF3-P48; eIF3-p46 |
| **UniProt Protein Name** | Eukaryotic translation initiation factor 3 subunit E |
| **UniProt Synonym Protein Names** | Eukaryotic translation initiation factor 3 subunit 6 |
| **Protein Family** | Eukaryotic translation initiation factor |
| **UniProt Gene Name** | EIF3E |
| **UniProt Synonym Gene Names** | eIF3e |
| **NCBI Protein Information** | eukaryotic translation initiation factor 3 subunit E |
| **UniProt Comments for EIF3E** | 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:25849773). Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway (PubMed:17468741). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed:17310990, PubMed:17324924). |
| **Research Articles on EIF3E** | **1.** A transcript-specific eIF3 complex mediates global translational control of energy metabolism. |
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