

Product Name: eIF3e (7U5) Rabbit Monoclonal Antibody
Catalog #: AMRe10373

Summary

Production Name	eIF3e (7U5) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	EIF3E
Alternative Names	eIF3e; EIF3S6; eIFe;
Gene ID	3646.0
SwissProt ID	P60228.

Application

Dilution Ratio	WB 1:1000-1:5000
Molecular Weight	52kDa

Background

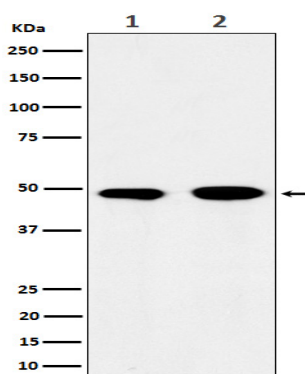
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Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed: [17581632](http://www.uniprot.org/citations/17581632), PubMed: [25849773](http://www.uniprot.org/citations/25849773), PubMed: [27462815](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/17468741)). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed: [17310990](http://www.uniprot.org/citations/17310990), PubMed: [17324924](http://www.uniprot.org/citations/17324924)).

Research Area

Image Data



Western blot analysis of eIF3e expression in (1) 293T cell lysate; (2) Jurkat cell lysate.

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Note

For research use only.