

## **Summary**

Production Name	elF3e (7U5) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human, Mouse, Rat

### Performance

Conjugation	Unconjugated
Modification	Unmodified
lsotype	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 $\pm 4^{\circ}$ C short term. Store at $\pm 20^{\circ}$ C long term.
builer	Avoid freeze / thaw cycle.
Purification	Affinity purification

#### Immunogen

Gene Name	EIF3E {ECO:0000255 HAMAP-Rule:MF_03004}
Alternative Names	eIF3e; EIF3S6; eIFe;
Gene ID	3646.0
SwissProt ID	P60228.

# Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	52kDa

## Background

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: <a href="http://www.uniprot.org/citations/17581632" target=" blank">17581632</a>, PubMed:<a href="http://www.uniprot.org/citations/25849773" target=" blank">25849773</a>, PubMed:<a href="http://www.uniprot.org/citations/27462815" target=" blank">27462815</a>). 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: <a href="http://www.uniprot.org/citations/17581632" target=" blank">17581632</a>). 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:<a href="http://www.uniprot.org/citations/25849773" target=" blank">25849773</a>). Required for nonsensemediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway (PubMed:<a href="http://www.uniprot.org/citations/17468741" target=" blank">17468741</a>). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed:<a href="http://www.uniprot.org/citations/17310990" target=" blank">17310990</a>, PubMed:<a href="http://www.uniprot.org/citations/17324924" target=" blank">17324924</a>).

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## **Research Area**

## Image Data



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





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