

**EIF3B Antibody (aa1-50)  
Rabbit Polyclonal Antibody  
Catalog # ALS15252****Specification**

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**EIF3B Antibody (aa1-50) - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P55884</a>
Reactivity	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

**EIF3B Antibody (aa1-50) - Additional Information****Gene ID** 8662**Other Names**

Eukaryotic translation initiation factor 3 subunit B {ECO:0000255|HAMAP-Rule:MF\_03001}, eIF3b {ECO:0000255|HAMAP-Rule:MF\_03001}, Eukaryotic translation initiation factor 3 subunit 9 {ECO:0000255|HAMAP-Rule:MF\_03001}, Prt1 homolog, hPrt1, eIF-3-eta {ECO:0000255|HAMAP-Rule:MF\_03001}, eIF3 p110 {ECO:0000255|HAMAP-Rule:MF\_03001}, eIF3 p116, EIF3B {ECO:0000255|HAMAP-Rule:MF\_03001}

**Target/Specificity**

Human EIF3B

**Reconstitution & Storage**

Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

**Precautions**

EIF3B Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF3B Antibody (aa1-50) - Protein Information****Name** EIF3B {ECO:0000255|HAMAP-Rule:MF\_03001}**Function**

RNA-binding 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>, PubMed:<a href="http://www.uniprot.org/citations/9388245" target="\_blank">9388245</a>). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A,

eIF-2:GTP:methionyl-tRNA<sup>i</sup> 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>, PubMed:<a href="http://www.uniprot.org/citations/9388245" target="\_blank">9388245</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>).

### Cellular Location

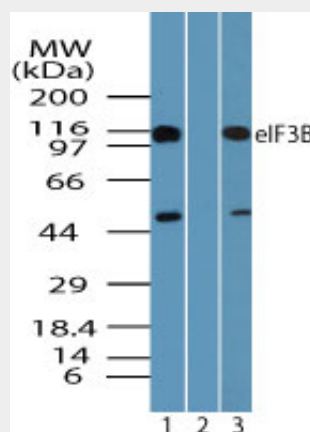
Cytoplasm {ECO:0000255|HAMAP-Rule:MF\_03001}. Cytoplasm, Stress granule. Note=Localizes to stress granules following cellular stress

### EIF3B Antibody (aa1-50) - Protocols

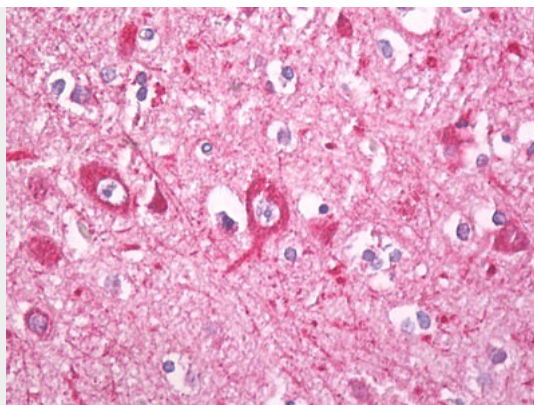
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### EIF3B Antibody (aa1-50) - Images



Western blot of eIF3B in A431 cell lysate in the 1) absence and 2) presence of immunizing...



Anti-EIF3B antibody IHC of human brain, cortex neurons.

#### **EIF3B Antibody (aa1-50) - Background**

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-tRNA<sub>i</sub> 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.

#### **EIF3B Antibody (aa1-50) - References**

- Chaudhuri J.,et al.J. Biol. Chem. 272:30975-30983(1997).
- Methot N.,et al.J. Biol. Chem. 272:1110-1116(1997).
- Hillier L.W.,et al.Nature 424:157-164(2003).
- Scherer S.W.,et al.Science 300:767-772(2003).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.