

**EIF5 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI13557****Specification**

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**EIF5 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P55010</a>
Other Accession	<a href="#">NM_183004</a> , <a href="#">NP_892116</a>
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49kDa KDa

**EIF5 antibody - N-terminal region - Additional Information****Gene ID 1983**

Alias Symbol	EIF-5A
<b>Other Names</b>	
Eukaryotic translation initiation factor 5, eIF-5, EIF5	

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-EIF5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

EIF5 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF5 antibody - N-terminal region - Protein Information****Name EIF5****Function**

Component of the 43S pre-initiation complex (43S PIC), which binds to the mRNA cap-proximal region, scans mRNA 5'-untranslated region, and locates the initiation codon (PubMed:<a href="http://www.uniprot.org/citations/11166181" target="\_blank">11166181</a>, PubMed:<a href="http://www.uniprot.org/citations/22813744" target="\_blank">22813744</a>, PubMed:<a href="http://www.uniprot.org/citations/24319994" target="\_blank">24319994</a>). In this complex, acts as a GTPase-activating protein, by promoting GTP hydrolysis by eIF2G (EIF2S3) (PubMed:<a href="http://www.uniprot.org/citations/11166181" target="\_blank">11166181</a>).

During scanning, interacts with both EIF1 (via its C-terminal domain (CTD)) and EIF1A (via its NTD) (PubMed:<a href="http://www.uniprot.org/citations/22813744" target="\_blank">22813744</a>). This interaction with EIF1A contributes to the maintenance of EIF1 within the open 43S PIC (PubMed:<a href="http://www.uniprot.org/citations/24319994" target="\_blank">24319994</a>). When start codon is recognized, EIF5, via its NTD, induces eIF2G (EIF2S3) to hydrolyze the GTP (PubMed:<a href="http://www.uniprot.org/citations/11166181" target="\_blank">11166181</a>). Start codon recognition also induces a conformational change of the PIC to a closed state (PubMed:<a href="http://www.uniprot.org/citations/22813744" target="\_blank">22813744</a>). This change increases the affinity of EIF5-CTD for EIF2-beta (EIF2S2), which allows the release, by an indirect mechanism, of EIF1 from the PIC (PubMed:<a href="http://www.uniprot.org/citations/22813744" target="\_blank">22813744</a>). Finally, EIF5 stabilizes the PIC in its closed conformation (PubMed:<a href="http://www.uniprot.org/citations/22813744" target="\_blank">22813744</a>).

### Cellular Location

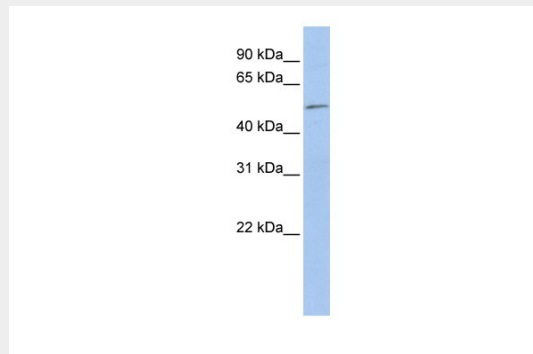
Cytoplasm.

### EIF5 antibody - N-terminal region - 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](#)

### EIF5 antibody - N-terminal region - Images

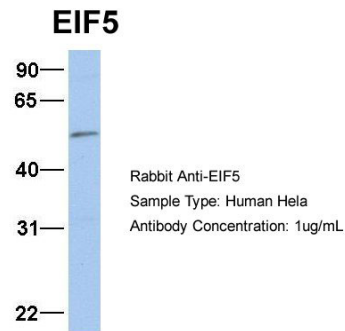


WB Suggested Anti-EIF5 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:312500

Positive Control: HeLa cell lysate

There is BioGPS gene expression data showing that EIF5 is expressed in HeLa



Host: Rabbit

Target Name: EIF5

Sample Tissue: HeLa

Antibody Dilution: 1.0µg/ml There is BioGPS gene expression data showing that EIF5 is expressed in HeLa

### EIF5 antibody - N-terminal region - References

- Si K., et al. J. Biol. Chem. 271:16934-16938(1996).  
Wiemann S., et al. Genome Res. 11:422-435(2001).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Bechtel S., et al. BMC Genomics 8:399-399(2007).  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.