

EIF5B Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51185**Specification**

EIF5B Antibody - Product Information

Application	WB, IP, IHC-P, E
Primary Accession	O60841
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	139 KDa

EIF5B Antibody - Additional Information**Gene ID** 9669**Other Names**

Eukaryotic translation initiation factor 5B, eIF-5B, Translation initiation factor IF-2, EIF5B, IF2, KIAA0741

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

EIF5B Antibody - Protein Information**Name** EIF5B**Synonyms** IF2, KIAA0741**Function**

Plays a role in translation initiation (PubMed: <http://www.uniprot.org/citations/10659855> target="_blank">10659855, PubMed: <http://www.uniprot.org/citations/35732735> target="_blank">35732735). Ribosome-dependent GTPase that promotes the joining of the 60S ribosomal subunit to the pre-initiation complex to form the 80S initiation complex with the initiator methionine-tRNA in the P-site base paired to the start codon (PubMed: <http://www.uniprot.org/citations/10659855> target="_blank">10659855, PubMed: <http://www.uniprot.org/citations/35732735> target="_blank">35732735). Together with eIF1A (EIF1AX), actively orients the initiator methionine-tRNA in a conformation that allows 60S ribosomal subunit joining to form the 80S initiation complex (PubMed: <http://www.uniprot.org/citations/12569173> target="_blank">12569173, PubMed: <http://www.uniprot.org/citations/35732735> target="_blank">35732735). Is released after formation of the 80S initiation complex (PubMed: <http://www.uniprot.org/citations/35732735> target="_blank">35732735). Its GTPase activity is not essential for ribosomal subunits joining, but GTP hydrolysis is needed for eIF1A

(EIF1AX) ejection quickly followed by EIF5B release to form elongation-competent ribosomes (PubMed:10659855, PubMed:35732735). In contrast to its procaryotic homolog, does not promote recruitment of Met-rRNA to the small ribosomal subunit (PubMed:10659855).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q05D44}.

EIF5B Antibody - 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](#)

EIF5B Antibody - Images

EIF5B Antibody - Background

Function in general translation initiation by promoting the binding of the formylmethionine-tRNA to ribosomes. Seems to function along with eIF-2 (By similarity).

EIF5B Antibody - References

Wilson S.A., et al. Biochem. J. 342:97-103(1999).
Lee J.H., et al. Proc. Natl. Acad. Sci. U.S.A. 96:4342-4347(1999).
Nagase T., et al. DNA Res. 5:277-286(1998).
Hillier L.W., et al. Nature 434:724-731(2005).
Bienvenut W.V., et al. Submitted (MAR-2009) to UniProtKB.