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EIF5B Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51185

Product Information

Application	WB, IP, IHC-P
Primary Accession	O60841
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138827

Additional Information

Gene ID	9669
Other Names	Eukaryotic translation initiation factor 5B, eIF-5B, Translation initiation factor IF-2, EIF5B, IF2, KIAA0741
Dilution	WB~~1:1000 IP~~N/A IHC-P~~N/A
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

Protein Information

Name	EIF5B
Synonyms	IF2, KIAA0741
Function	Plays a role in translation initiation (PubMed: 10659855, PubMed: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:10659855, PubMed: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:12569173, PubMed:35732735). Is released after formation of the 80S initiation complex (PubMed: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}.

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).

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.

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