

# EIF5B Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51185

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP, IHC-P          |
| Primary Accession | <a href="#">O60841</a> |
| 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: <a href="#">10659855</a> , PubMed: <a href="#">35732735</a> ). 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: <a href="#">10659855</a> , PubMed: <a href="#">35732735</a> ). 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: <a href="#">12569173</a> , PubMed: <a href="#">35732735</a> ). Is released after formation of the 80S initiation complex (PubMed: <a href="#">35732735</a> ). 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: <a href="#">10659855</a> , PubMed: <a href="#">35732735</a> ). In contrast to its procaryotic homolog, does not promote recruitment of Met-rRNA to the small ribosomal subunit (PubMed: <a href="#">10659855</a> ). |
| Cellular Location | Cytoplasm {ECO:0000250 UniProtKB:Q05D44}.   |

## Background

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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

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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).  
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