

EIF5 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI13557

Product Information

Application	WB
Primary Accession	P55010
Other Accession	NM_183004 , NP_892116
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49223

Additional Information

Gene ID	1983
Alias Symbol	EIF-5A
Other Names	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.

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: 11166181 , PubMed: 22813744 , PubMed: 24319994). In this complex, acts as a GTPase- activating protein, by promoting GTP hydrolysis by eIF2G (EIF2S3) (PubMed: 11166181). During scanning, interacts with both EIF1 (via its C-terminal domain (CTD)) and EIF1A (via its NTD) (PubMed: 22813744). This interaction with EIF1A contributes to the maintenance of EIF1 within the open 43S PIC (PubMed: 24319994). When start codon is recognized, EIF5, via its NTD, induces eIF2G (EIF2S3) to hydrolyze the GTP (PubMed: 11166181). Start codon recognition also induces a conformational change of the PIC to a closed state (PubMed: 22813744). 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:[22813744](#)). Finally, EIF5 stabilizes the PIC in its closed conformation (PubMed:[22813744](#)).

Cellular Location

Cytoplasm.

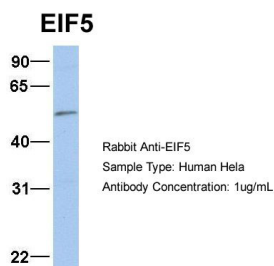
References

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.