

eIF1A Rabbit pAb

Catalog # AP53618

Product Information

Primary Accession	P47813
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	16460

Additional Information

Gene ID	1964
Other Names	EIF1A; EIF4C; eIF-1A; eIF-4C; EIF1AP1
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

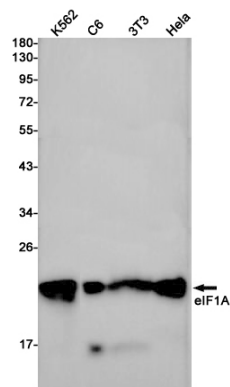
Name	EIF1AX
Synonyms	EIF1A, EIF4C
Function	Component of the 43S pre-initiation complex (43S PIC), which binds to the mRNA cap-proximal region, scans mRNA 5'-untranslated region, and locates the initiation codon (PubMed:9732867). This protein enhances formation of the cap-proximal complex (PubMed:9732867). Together with EIF1, facilitates scanning, start codon recognition, promotion of the assembly of 48S complex at the initiation codon (43S PIC becomes 48S PIC after the start codon is reached), and dissociation of aberrant complexes (PubMed:9732867). After start codon location, together with EIF5B orients the initiator methionine-tRNA in a conformation that allows 60S ribosomal subunit joining to form the 80S initiation complex (PubMed:35732735). Is released after 80S initiation complex formation, just after GTP hydrolysis by EIF5B, and before release of EIF5B (PubMed:35732735). Its globular part is located in the A site of the 40S ribosomal subunit (PubMed:35732735). Its interaction with EIF5 during scanning contribute to the maintenance of EIF1 within the open 43S PIC (PubMed:24319994). In contrast to yeast orthologs, does not bind EIF1 (PubMed:24319994).
Cellular Location	Cytoplasm.

Background

Swiss-Prot Acc.P47813.Seems to be required for maximal rate of protein biosynthesis. Enhances ribosome

dissociation into subunits and stabilizes the binding of the initiator Met-tRNA(I) to 40 S ribosomal subunits.

Images



Western blot detection of eIF1A in K562,C6,3T3,Hela cell lysates using eIF1A Rabbit pAb(1:1000 diluted).Predicted band size:17kDa.Observed band size:17kDa.

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