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eIF1AY Polyclonal Antibody
Catalog # AP69686

Specification

eIF1AY Polyclonal Antibody - Product Information

Application	**IHC-P**
Primary Accession	O14602
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

eIF1AY Polyclonal Antibody - Additional Information

Gene ID 9086

Other Names
EIF1AY; Eukaryotic translation initiation factor 1A; Y-chromosomal; eIF-1A Y isoform; Eukaryotic translation initiation factor 4C; eIF-4C

Dilution
IHC-P~~N/A

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

eIF1AY Polyclonal Antibody - Protein Information

Name EIF1AY

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. This protein enhances formation of the cap-proximal complex. 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. 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. Is released after 80S initiation complex formation, just after GTP hydrolysis by EIF5B, and before release of EIF5B. Its globular part is located in the A site of the 40S ribosomal subunit. Its interaction with EIF5 during scanning contribute to the maintenance of EIF1 within the open 43S PIC. In contrast to yeast orthologs, does not bind EIF1.

Cellular Location
Cytoplasm.

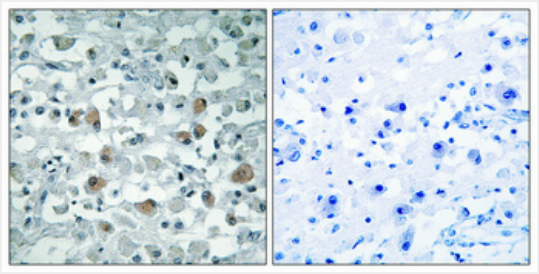
Tissue Location
Ubiquitous.

eIF1AY Polyclonal 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 Cytomety
- Cell Culture

eIF1AY Polyclonal Antibody - Images



eIF1AY Polyclonal Antibody - Background

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 (By similarity).