

Anti-EIF1AY Antibody
Rabbit polyclonal antibody to EIF1AY
Catalog # AP61214**Specification**

Anti-EIF1AY Antibody - Product Information

Application	WB, IHC
Primary Accession	O14602
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16442

Anti-EIF1AY Antibody - Additional Information**Gene ID** 9086**Other Names**

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

Target/Specificity

Recognizes endogenous levels of EIF1AY protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)
IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-EIF1AY 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.

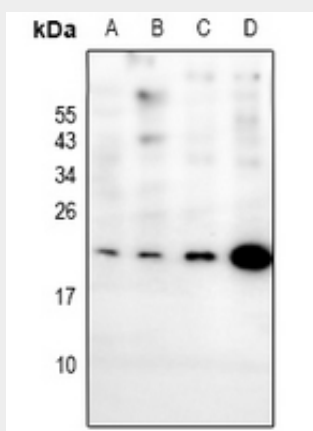
Tissue Location

Ubiquitous.

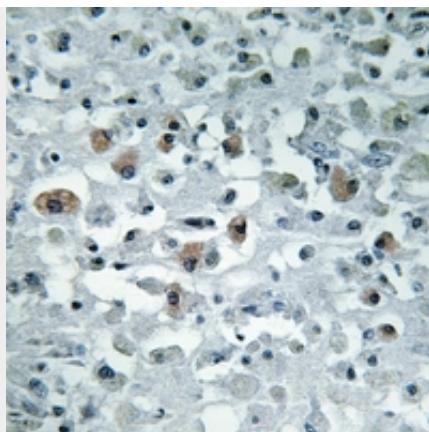
Anti-EIF1AY Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-EIF1AY Antibody - Images

Western blot analysis of EIF1AY expression in mouse embryo (A), rat uterus (B), PC3 (C), Panc1 (D) whole cell lysates.



Immunohistochemical analysis of EIF1AY staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-EIF1AY Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EIF1AY. The exact sequence is proprietary.