

PPIE Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17550a

Specification

PPIE Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UNP9
Other Accession	O9QZH3 , A4FV72 , NP_982281.1 , NP_006103.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33431
Antigen Region	22-49

PPIE Antibody (N-term) - Additional Information

Gene ID 10450

Other Names

Peptidyl-prolyl cis-trans isomerase E, PPlase E, Cyclophilin E, Cyclophilin-33, Rotamase E, PPIE, CYP33

Target/Specificity

This PPIE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-49 amino acids from the N-terminal region of human PPIE.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PPIE Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPIE Antibody (N-term) - Protein Information

Name PPIE

Synonyms CYP33 {ECO:0000303|PubMed:8977107}

Function Involved in pre-mRNA splicing as component of the spliceosome (PubMed:[11991638](#), PubMed:[28076346](#)). Combines RNA-binding and PPlase activities (PubMed:[18258190](#), PubMed:[20460131](#), PubMed:[20677832](#), PubMed:[8977107](#)). Binds mRNA and has a preference for single-stranded RNA molecules with poly-A and poly-U stretches, suggesting it binds to the poly(A)-region in the 3'-UTR of mRNA molecules (PubMed:[18258190](#), PubMed:[20460131](#), PubMed:[8977107](#)). Catalyzes the cis-trans isomerization of proline imidic peptide bonds in proteins (PubMed:[18258190](#), PubMed:[20541251](#), PubMed:[20677832](#), PubMed:[8977107](#)). Inhibits KMT2A activity; this requires proline isomerase activity (PubMed:[20460131](#), PubMed:[20541251](#), PubMed:[20677832](#)).

Cellular Location

Nucleus

Tissue Location

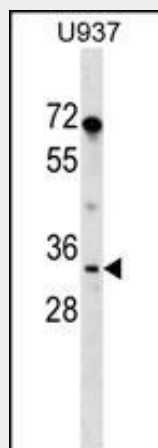
Found in all the examined tissues including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

PPIE Antibody (N-term) - 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](#)

PPIE Antibody (N-term) - Images



PPIE Antibody (N-term) (Cat. #AP17550a) western blot analysis in U937 cell line lysates (35ug/lane). This demonstrates the PPIE antibody detected the PPIE protein (arrow).

PPIE Antibody (N-term) - Background

The protein encoded by this gene is a member of the

peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein contains a highly conserved cyclophilin (CYP) domain as well as an RNA-binding domain. It was shown to possess PPIase and protein folding activities, and it also exhibits RNA-binding activity. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 1, has been identified.

PPIE Antibody (N-term) - References

Park, S., et al. Biochemistry 49(31):6576-6586(2010)
Hom, R.A., et al. J. Mol. Biol. 400(2):145-154(2010)
Wang, Z., et al. Cell 141(7):1183-1194(2010)
Naukkarinen, J., et al. PLoS Genet. 6 (6), E1000976 (2010) :
Chen, J., et al. Cancer Res. 68(15):6199-6207(2008)