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

Specification

PPIE Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9UNP9
Other Accession	Q9QZH3, 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, PPIase 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

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 PPIase activities (PubMed:8977107, PubMed:18258190, PubMed:20677832, PubMed:20460131). 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:8977107, PubMed:18258190, PubMed:20460131). Catalyzes the cis-trans isomerization of proline imidic peptide bonds in proteins (PubMed:8977107, PubMed:18258190, PubMed:20677832, PubMed:20541251). Inhibits KMT2A activity; this requires proline isomerase activity (PubMed:20677832, PubMed:20541251, PubMed:20460131).

Cellular Location
Nucleus

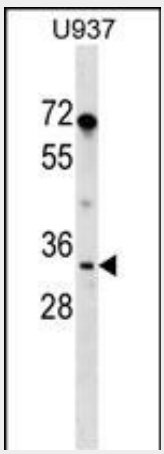
Tissue Location
Found in all the examined tissues including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

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 Cytomety
- 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)
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Chen, J., et al. Cancer Res. 68(15):6199-6207(2008)