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PPIL1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16758c

Product Information

Application	WB, E
Primary Accession	Q9Y3C6
Other Accession	Q9D0W5, Q5E992, NP_057143.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36540
Calculated MW	18237
Antigen Region	63-91

Additional Information

Gene ID	51645
Other Names	Peptidyl-prolyl cis-trans isomerase-like 1, PPIase, Rotamase PPIL1, PPIL1, CYPL1
Target/Specificity	This PPIL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-91 amino acids from the Central region of human PPIL1.
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	PPIL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPIL1
Synonyms	CYPL1

Function	Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:28076346, PubMed:28502770, PubMed:33220177). PPIases accelerate the folding of proteins. Catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides (PubMed:16595688). Catalyzes prolyl peptide bond isomerization in CDC40/PRP17 (PubMed:33220177). Plays an important role in embryonic brain development; this function is independent of its isomerase activity (PubMed:33220177).
Cellular Location	Nucleus
Tissue Location	Ubiquitous, with the most abundant expression in heart and skeletal muscle

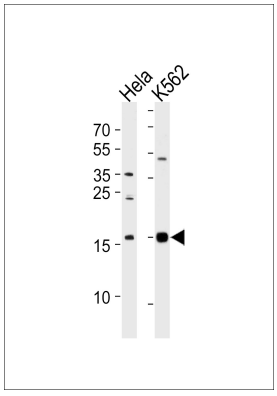
Background

This gene is a member of the cyclophilin family of peptidylprolyl isomerases (PPIases). The cyclophilins are a highly conserved, ubiquitous family, members of which play an important role in protein folding, immunosuppression by cyclosporin A, and infection of HIV-1 virions. Based on similarity to other PPIases, this protein could accelerate the folding of proteins and might catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

References

Wang, X., et al. J. Biol. Chem. 285(7):4951-4963(2010)
Xu, C., et al. J. Biol. Chem. 281(23):15900-15908(2006)
Xu, C., et al. J. Biomol. NMR 31(2):179-180(2005)
Mungall, A.J., et al. Nature 425(6960):805-811(2003)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



Western blot analysis of lysates from Hela, K562 cell line (from left to right), using PPIL1 Antibody (Center)(Cat. #AP16758c). AP16758c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.