For Research Use Only

PPP1CA Monoclonal antibody

Catalog Number:67070-1-lg Featured Product

8 Publications

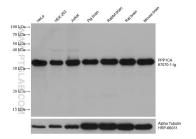


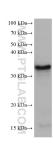
Basic Information	Catalog Number:GenBank Accession Number:67070-1-lgBC001888		Purification Method: Protein A purification	
	Concentration:	GenelD (NCBI):		CloneNo.:
	1000 µg/ml	5499		1C 10A2 Recommended Dilutions: WB 1:5000-1:50000
	Source: Mouse	UNIPROT ID: P62136		
	Isotype: IgG1 Immunogen Catalog Number: AG28451	Full Name: protein phosphatase 1, catalytic subunit, alpha isoform Calculated MW: 330 aa, 38 kDa		
		Applications	Tested Applications:	
WB, ELISA Cited Applications: WB, IP Species Specificity: Human, mouse, rat, pig, zebrafish Cited Species: human, mouse, rat	h, rabbit		WB : HeLa cells, fetal human brain tissue, pig brain tissue, zebrafish tissue, T-47D cells, Jurkat cells, HE 293 cells, rabbit brain tissue, rat brain tissue, mous brain tissue	
Background Information	Protein phosphatase associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Type 1 protein phosphatase (PP1), a serine/threonine phosphatase is essential for cell division and participates in the regulation of glycogen metabolism, muscle contractility, and protein synthesis. Four isoforms of PP1 have been characterized: PP1 α , PP1 δ , PP1 γ 1 and PP1 γ 2 (PMID: 9835651) It has been illustrated that PP1 dephosphorylates Rb and cdc25 during mitosis (PMID: 8384581, PMID: 1392080). A cell cycle-dependent phosphorylation at Thr320 of PP1 α by cdc2 kinase inhibits PP1 α activity (PMID: 9122166).			
Notable Publications	Author	Pubmed ID Jo	ournal	Application
	Xiaozhen Gu	33080273 Ne	eurotoxicology	WB
	Jiatian Lin	33101466 Ex	(p Ther Med	WB
	Xiaoyi Xu 许潇依	35501151 J I	Neurosci	WB

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 67070-1-Ig (PPP1CA antibody) at dilution of 1:2600 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.

zebrafish tissue were subjected to SDS PAGE followed by western blot with 67070-1-1g (PPP1CA antibody) at dilution of 1:2600 incubated at room temperature for 1.5 hours.