For Research Use Only

PPP4C Polyclonal antibody

Catalog Number:10262-1-AP 6 Publications



Basic Information	Catalog Number: 10262-1-AP	GenBank Accession Number: BC001416	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	400 ug/ml	5531	WB 1:500-1:2000	
	Source:	UNIPROT ID:	IP 0.5-4.0 ug for 1.0-3.0 mg of total	
	Rabbit Isotype: IgG Immunogen Catalog Number: AG0356	P60510 Full Name:	protein lysate IF/ICC 1:200-1:800 X),	
				protein phosphatase 4 (formerly)
		catalytic subunit		
		Calculated MW: 35 kDa		
		Observed MW: 35 kDa		
		Applications	Tested Applications:	Positive Controls:
WB, IF/ICC, IP, ELISA	WB : HEK-2		WB : HEK-293 cells, Jurkat cells, mouse kidney tissue	
Cited Applications: WB, IF, IP	IP : mouse		IP : mouse kidney tissue,	
Species Specificity:	IF/ICC : HE		EK-293 cells,	
human, mouse, rat				
Cited Species:				
human, mouse				
Background Information	The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions. The serine/threonine protein phosphatases (PP) are intimately involved in this process. Serine/threonine protein phosphatase X (PPX; also called protein phosphatase 4 (PP4)) are specifically associated with nuclear factor-kappa B (NF-kappa B) p50, c-Rel, and RelA, which are pleiotropic transcription factors that play central roles in the immune and inflammatory responses, as well as apoptosis. Overexpression of PPX stimulated the DNA-binding activity of c-Rel and activated NF-kappa B-mediated transcription. Although the mechanism by which PPX activates Rel/NF-kappa B-mediated transcription is unclear, PPX appeared to act on Rel/NF-kappa B proteins directly through augmentation of c-Rel activity. It is also possible that PPX may dephosphorylate and subsequently activate other c-Rel-associated transcription factors or other kinases regulating I kappaB (e.g. I kappa B kinases or MEKK1). These data suggest that PPX is an activator, but not a inhibitor, of c-Rel/NF-kappa B, which is in contrast to other protein phosphatases.			
	that PPX may dephosphorylate an kinases regulating I kappaB (e.g. I	l kappa B kinases or MEKK1). These dat	sociated transcription factors or other a suggest that PPX is an activator, but not	
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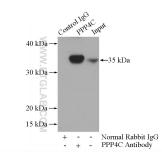
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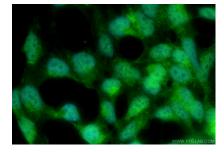
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Selected Validation Data





HEK-293 cells were subjected to SDS PAGE followed by western blot with 10262-1-AP (PPP4C antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. IP result of anti-PPP4C (IP:10262-1-AP, 4ug; Detection:10262-1-AP 1:1000) with mouse kidney tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using PPP4C antibody (10262-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).