For Research Use Only

CPT1B-specific Polyclonal antibody

Catalog Number:22170-1-AP

Featured Product

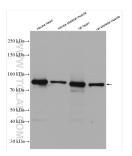
47 Publications



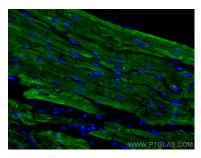
Basic Information	Catalog Number: GenBank Accession 22170-1-AP BC131570		on Number:	umber: Purification Method: Antigen affinity purification		
	Size:	GeneID (NCBI):			Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500	
	600 µg/ml	1375				
	Source: Rabbit					
	Isotype: IgG Immunogen Catalog Number: AG17840	carnitine palmite				
		Calculated MW: 567 aa, 64 kDa				
		Observed MW: 75-85 kDa				
Applications	Tested Applications:					
	Cited Applications: mouse skele			heart tissue, rat skeletal muscle tissue, etal muscle tissue, rat heart tissue		
	Species Specificity:		IP : mouse he	ouse heart tissue, mouse skeletal muscle tissu		
			heart tissue, eart tissue,			
	Cited Species: IF : mouse he human, rat, sheep, mouse, zebrafish, pig, ewes					
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
Background Information	Carnitine palmitoyltransferases (CPTs) mediate the transport of long chain fatty acyl groups into the mitochondrial matrix to undergo b-oxidation. Type I CPT resides in the outer mitochondrial membrane. Mammalian tissues express three isoforms: CPT1A (liver), CPT1B (muscle and heart), and CPT1C (brain). Several isoforms of CPT1B exisdue to the alternative splicing, with predicted MW of 88/84/79/66 kDa.					
Notable Publications	Author	Pubmed ID J	Journal		Application	
	Kevin Gibbs	32997738 J	J Gerontol A Biol Sci Med Sci		WB	
	Myeong-Hwa Song	34571434 B	Biomaterials		WB	
	Weiwei Gui	33115498 C	ell Commun Signal		WB	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide ar					

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

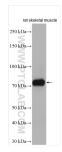
Selected Validation Data



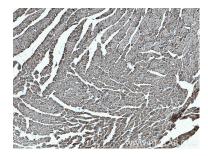
Various lysates were subjected to SDS PAGE followed by western blot with 22170-1-AP (CPT1Bspecific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



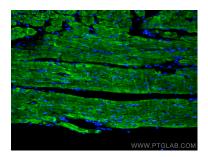
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CPT1B-specific antibody (22170-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



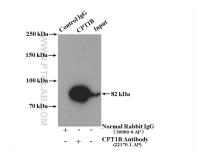
Rat skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 22170-1-AP (CPT1B-specific antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 22170-1-AP (CPT1B-specific antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CPT 1B-specific antibody (22170-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-CPT1B-specific (IP:22170-1-AP, 4ug; Detection:22170-1-AP 1:600) with mouse heart tissue lysate 3600 ug.