For Research Use Only

CPT1A Monoclonal antibody

Catalog Number:66039-1-lg Featured Product 30 Publications



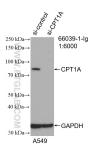
Basic Information	Catalog Number: 66039-1-lg	GenBank Accession Number: BC000185	Purification Method: Protein A purification				
	Size:	GenelD (NCBI):	CloneNo.:				
	150ul , Concentration: 2100 ug/ml by	/ 1374	5D8G9				
	Nanodrop and 1000 ug/ml by Bradfor method using BSA as the standard;	rd <mark>UNIPROT ID:</mark> P50416	Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF/ICC 1:900-1:3600				
	Source: Mouse Isotype: IgG2a Immunogen Catalog Number: AG7745	Full Name: carnitine palmitoyltransferase 1A (liver) Calculated MW: 88 kDa Observed MW: 86 kDa					
				Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA	Positive	sitive Controls:
			Cited Applications:		WB : A549 cells, IP : MCF-7 cells, IHC : human breast cancer tissue, human liver tissue IF/ICC : HeLa cells,		
WB, IHC, IF, IP, CoIP							
Species Specificity: human, mouse, rat							
Cited Species: human, mouse, rat							
Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen						
Background Information	CPT1A, also named as CPT1, CPT1-L and L-CPTI, belongs to the carnitine/choline acetyltransferase family. Carnitine palmitoyltransferase (CPT) deficiencies are common disorders of mitochondrial fatty acid oxidation. The CPT system is made up of two separate proteins located in the outer (CPT1) and inner (CPT2) mitochondrial membranes CPT1A is an active forms of related liver-type carnitine palmitoyltransferase I. (PMID: 11001805). CPT1A deficiency presents as recurrent attacks of fasting hypoketotic hypoglycemia. (PMID: 15363638). This antibody can bind the close sequences genes.						
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

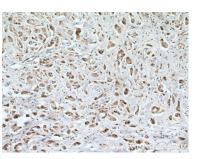
E: proteintech@ptglab.com W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

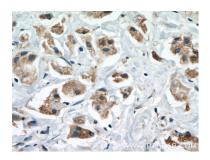
Selected Validation Data



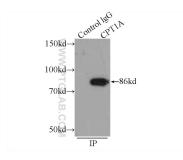
WB result of CPT1A antibody (66039-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CPT1A transfected A549 cells.



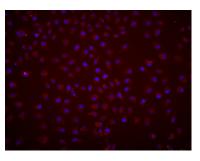
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66039-1-1g (CPT1A antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



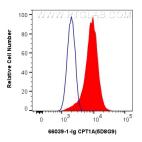
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66039-1-Ig (CPT1A antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CPT1A (IP:66039-1-Ig, 4ug; Detection:66039-1-Ig 1:500) with MCF-7 cells lysate 1200ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CPT1A antibody (66039-1-1g, Clone: 5D8G9) at dilution of 1:1800 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug CPT1A Monoclonal antibody (66039-1-lg, Clone:5D8G9) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgC2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).