For Research Use Only

CROT Polyclonal antibody

Catalog Number:13543-1-AP

Featured Product

5 Publications

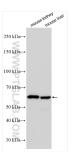


Basic Information	Catalog Number: 13543-1-AP	GenBank Accession Number: BC039004	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	150ul , Concentration: 750 ug/ml by	54677	WB 1:5000-1:50000	
	Nanodrop and 400 ug/ml by Bradford	UNIPROT ID:	IHC 1:20-1:200	
	method using BSA as the standard;	Q9UKG9	IF/ICC 1:200-1:800	
	Source: Rabbit	Full Name: carnitine O-octanoyltransferase Calculated MW:		
	Isotype:			
	IgG Immunogen Catalog Number: AG4486	612 aa, 66 kDa		
		Observed MW:		
		65-70 kDa		
Applications	Tested Applications:	Positive Controls:		
	WB, IHC, IF/ICC, FC (Intra), ELISA	WB: mou	WB : mouse kidney tissue, mouse liver tissue	
	Cited Applications: WB, IHC, IF	IHC : human liver cancer tissue, IF/ICC : HepG2 cells,		
	Species Specificity:			
	human, mouse			
	Cited Species: human, mouse			
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
De alemana de Constant	CROT, also named as COT, belongs to the carnitine/choline acetyltransferase family. It is a beta-oxidation of fatty acids. The highest activity concerns the C6 to C10 chain length substrate. CROT converts the end product of pristania acid beta oxidation, 4,8-dimethylnonanoyl-CoA, to its corresponding carnitine ester. 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. CROT is an active forms for carnitine octanoyltransferase. This antibody can bind the close sequences genes.			
Background Information	(CPT) deficiencies are common disord separate proteins located in the outer	ders of mitochondrial fatty acid ox r (CPT1) and inner (CPT2) mitocho	ndrial membranes. CROT is an activ	p of two
	(CPT) deficiencies are common disord separate proteins located in the outer for carnitine octanoyltransferase. This	ders of mitochondrial fatty acid ox r (CPT1) and inner (CPT2) mitocho	ndrial membranes. CROT is an activ	p of two ve forms
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	(CPT) deficiencies are common disord separate proteins located in the outer for carnitine octanoyltransferase. This Author Pub Xin Li 361	ders of mitochondrial fatty acid ox r (CPT 1) and inner (CPT 2) mitocho s antibody can bind the close sequ med ID Journal	ndrial membranes. CROT is an activ Jences genes. Applicat	p of two ve forms ion
	(CPT) deficiencies are common disord separate proteins located in the outer for carnitine octanoyltransferase. This Author Pub Xin Li 361 Jake Hsu 365	ders of mitochondrial fatty acid ox r (CPT 1) and inner (CPT 2) mitocho s antibody can bind the close sequ med ID Journal 20434 Front Endocrinol	ndrial membranes. CROT is an activ jences genes. Applicat (Lausanne) WB,IHC,I	p of two ve forms ion
Notable Publications	(CPT) deficiencies are common disord separate proteins located in the outer for carnitine octanoyltransferase. This Author Pub Xin Li 361 Jake Hsu 365 Joseph Choi 392 Storage: Storage: Storage Buffer: PBS with 0.02% sodium azide and 50	ders of mitochondrial fatty acid ox r (CPT 1) and inner (CPT 2) mitocho s antibody can bind the close sequ med ID Journal 20434 Front Endocrinol 87768 J Biol Chem 52970 iScience er shipment. % glycerol pH 7.3.	ndrial membranes. CROT is an activ Jences genes. (Lausanne) WB,IHC,I WB	p of two ve forms ion
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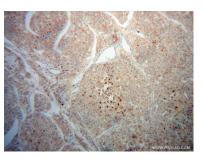
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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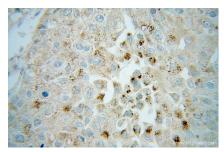
Selected Validation Data



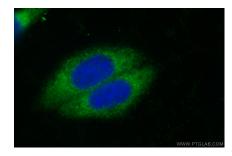
Various lysates were subjected to SDS PAGE followed by western blot with 13543-1-AP (CROT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



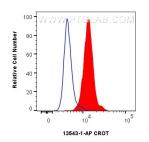
Immunohistochemical analysis of paraffinembedded human liver cancer using 13543-1-AP (CROT antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human liver cancer using 13543-1-AP (CROT antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CROT antibody (13543-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug CROT Polyclonal antibody (13543-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).