

For Research Use Only

ACOT12 Polyclonal antibody

Catalog Number: 17871-1-AP

1 Publications



Basic Information

Catalog Number: 17871-1-AP	GenBank Accession Number: BC075011	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1700 ug/ml by Nanodrop;	GeneID (NCBI): 134526	Recommended Dilutions: WB: 1:1000-1:6000
Source: Rabbit	UNIPROT ID: Q8WYK0	IHC: 1:50-1:500
Isotype: IgG	Full Name: acyl-CoA thioesterase 12	IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG12355	Calculated MW: 555 aa, 62 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, rat	WB : HeLa cells, HepG2 cells, HuH-7 cells, rat liver tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human colon cancer tissue,
	IF/ICC : U2OS cells,

Background Information

ACOT12 is an acyl-coenzyme A thioesterase that hydrolyzes acyl-coenzyme A (acyl-CoA) to free fatty acids and coenzyme A, thereby regulating intracellular levels of acyl-CoA and free fatty acids. It plays a key role in lipid metabolism and is mainly expressed in the kidney, liver, and intestine. ACOT12 plays an important role in a variety of diseases, including renal fibrosis, nonalcoholic fatty liver disease (NAFLD), and hepatocellular carcinoma. In renal fibrosis, downregulation of ACOT12 expression leads to lipid accumulation and exacerbates the fibrotic process. Restoration of its expression ameliorates renal fibrosis, suggesting that ACOT12 is a potential therapeutic target.

Notable Publications

Author	Pubmed ID	Journal	Application
Kyeong Min Son	31283041	J Orthop Res	

Storage

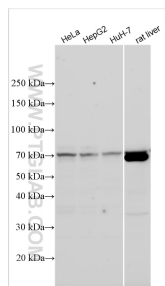
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

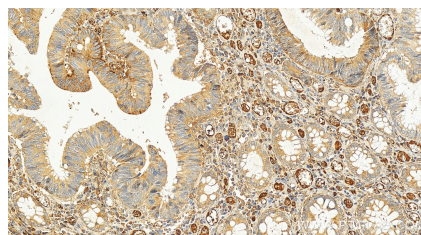
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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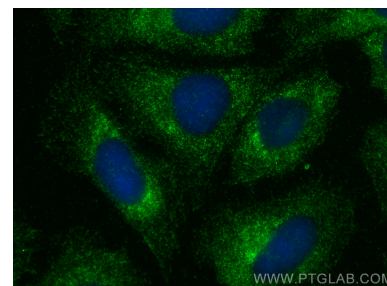
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17871-1-AP (ACOT12 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17871-1-AP (ACOT12 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using ACOT12 antibody (17871-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).