

For Research Use Only

ACOT12 Polyclonal antibody, PBS Only

Catalog Number:17871-1-PBS



Basic Information

Catalog Number: 17871-1-PBS	GenBank Accession Number: BC075011	Purification Method: Antigen affinity purification
Concentration: 1mg/ml	GeneID (NCBI): 134526	
Source: Rabbit	UNIPROT ID: Q8WYK0	
Isotype: IgG	Full Name: acyl-CoA thioesterase 12	
Immunogen Catalog Number: AG12355	Calculated MW: 555 aa, 62 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, rat

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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

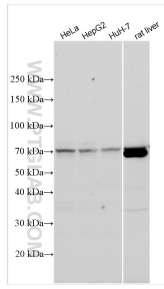
T: 4006900926

E: Proteintech-CN@ptglab.com

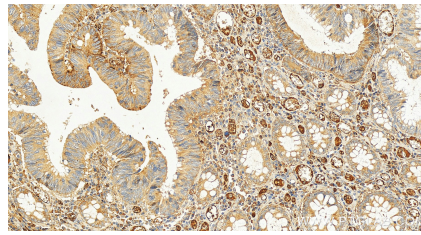
W: ptgcn.com

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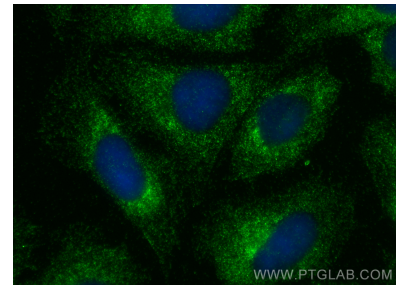
Selected Validation Data



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. This data was developed using the same antibody clone with 17871-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 17871-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 17871-1-PBS in a different storage buffer formulation.