

For Research Use Only

# ACOT12 Polyclonal antibody

Catalog Number: 17871-1-AP



## Basic Information

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

## Applications

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

**Species Specificity:**  
human, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HeLa cells, HepG2 cells, HuH-7 cells, rat liver tissue

**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.

## Storage

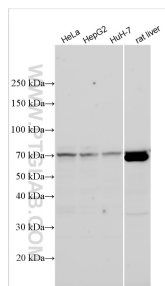
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

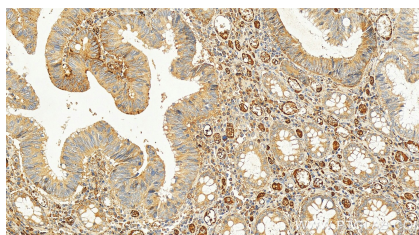
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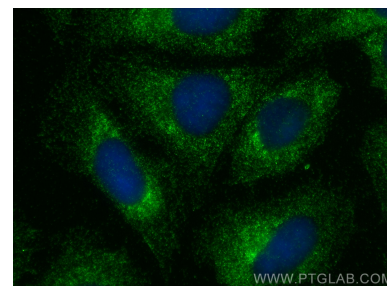
## Selected Validation Data



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).