

For Research Use Only

# ACOX1 Polyclonal antibody

Catalog Number:10957-1-AP

Featured Product

101 Publications



## Basic Information

Catalog Number:

10957-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1405

GenBank Accession Number:

BC010425

GeneID (NCBI):

51

UNIPROT ID:

Q15067

Full Name:

acyl-Coenzyme A oxidase 1,  
palmitoyl

Calculated MW:

74 kDa

Observed MW:

70-74kDa, 50 kDa, 22kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, chicken, bovine

**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 : mouse liver tissue, HepG2 cells, mouse kidney  
tissue, rat liver tissue

IHC : human liver cancer tissue,

IF/ICC : A549 cells,

## Background Information

ACOX1(Peroxisomal acyl-coenzyme A oxidase 1) is the first and rate-limiting enzyme in the peroxisomal fatty acid beta-oxidation pathway and catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It belongs to the acyl-CoA oxidase family and also named as ACOX, AOX, SCOX. It has 3 isoforms produced by alternative splicing with the molecular mass of 70-74 kDa and can be cleaved post-translationally into a 50-kDa and a 22-kDa subunit between Val468 and Ala469 (PMID: 10672038). Defects in ACOX1 are the cause of adrenoleukodystrophy pseudoneonatal (Pseudo-NALD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Li-Na Sun	28923398	Cancer Lett	WB,IHC
Kahori Shimizu	36099304	PLoS One	WB
Yuezhu Zhang	31491605	Ecotoxicol Environ Saf	WB

## 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

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

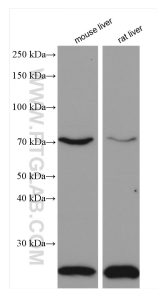
T: 4006900926

E: Proteintech-CN@ptglab.com

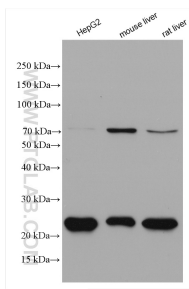
W: ptgcn.com

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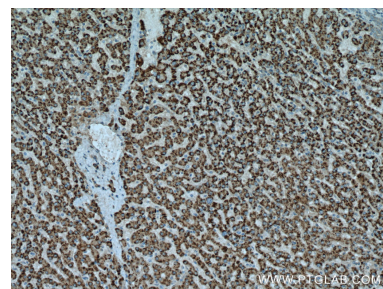
Selected Validation Data



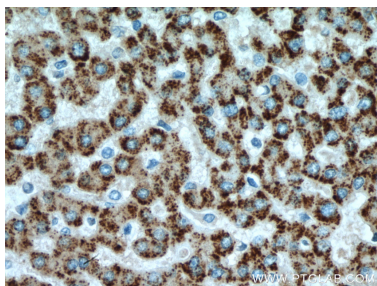
Various lysates were subjected to SDS PAGE followed by western blot with 10957-1-AP (ACOX1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



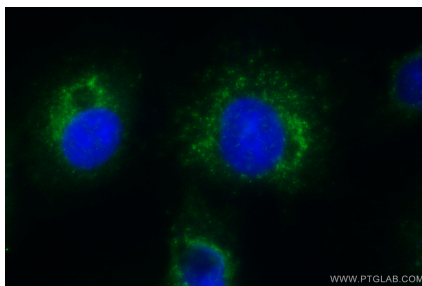
Various lysates were subjected to SDS PAGE followed by western blot with 10957-1-AP (ACOX1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



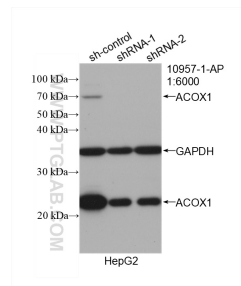
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10957-1-AP (ACOX1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10957-1-AP (ACOX1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using ACOX1 antibody (10957-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



WB result of ACOX1 antibody (10957-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACOX1 transfected HepG2 cells.