

For Research Use Only

Multi-rAb™ ACOX1 Multi-Recombinant antibody

Catalog Number: RMX00007



Basic Information

Catalog Number:

RMX00007

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

N/A

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, 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 : HCT 116 cells, HepG2 cells, K-562 cells, mouse liver tissue, rat liver tissue, HuH-7 cells, NIH/3T3 cells

IP : HepG2 cells,

IHC : mouse liver tissue,

IF/ICC : HepG2 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).

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

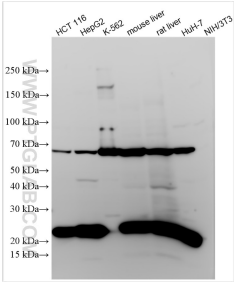
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

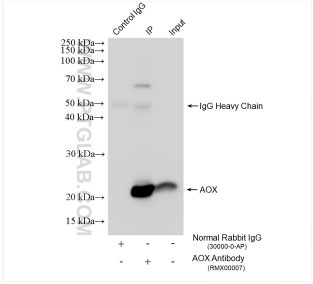
E: proteintech@ptglab.com
W: ptglab.com

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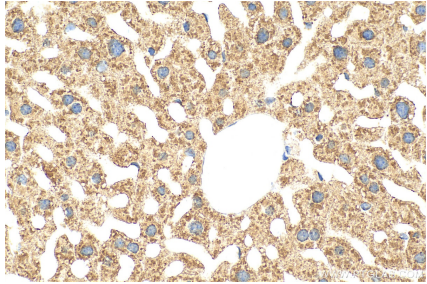
Selected Validation Data



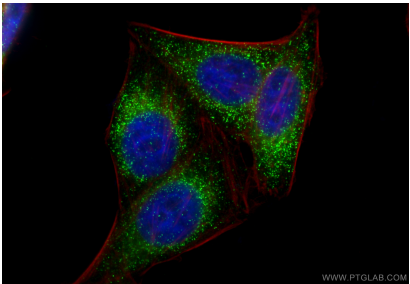
Various lysates were subjected to SDS PAGE followed by western blot with RMX00007 (ACOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-AOX (IP:RMX00007, 4ug; Detection:RMX00007 1:10000) with HepG2 cells lysate 2000 ug.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using RMX00007 (AOX antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using AOX antibody (RMX00007) at dilution of 1:200 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).