

For Research Use Only

ACOX1 Monoclonal antibody

Catalog Number: 68017-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number:

68017-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by

Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28037

GenBank Accession Number:

BC010425

GeneID (NCBI):

51

UNIPROT ID:

Q15067

Full Name:

acyl-Coenzyme A oxidase 1,
palmitoyl

Calculated MW:

74 kDa

Observed MW:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

3E12E10

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat

Positive Controls:

WB: LNCaP cells, pig liver tissue, rat liver tissue,
HepG2 cells, HeLa cells, HEK-293 cells, Jurkat cells,
HSC-T6 cells, NIH/3T3 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
Xinhui Liu	36313325	Front Pharmacol	WB
Qiming Xiao	35567992	Phytomedicine	WB,IF
Xinyue Xu	39326975	Chin J Nat Med	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

*** 20ul sizes contain 0.1% BSA

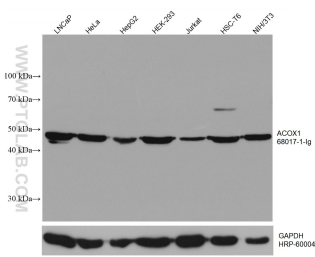
For technical support and original validation data for this product please contact:

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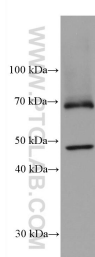
E: proteintech@ptglab.com
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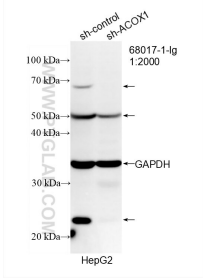
Selected Validation Data



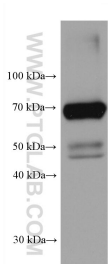
Various lysates were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



rat liver tissue were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of ACOX1 antibody (68017-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACOX1 transfected HepG2 cells.



pig liver tissue were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

1x10⁶ NIH/3T3 cells were intracellularly stained with 0.25 ug ACOX1 Monoclonal antibody (68017-1-Ig, Clone:3E12E10) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).