

For Research Use Only

ACOX1 Monoclonal antibody

Catalog Number: 68017-1-Ig

Featured Product

5 Publications



Basic Information

Catalog Number:

68017-1-Ig

Concentration:

1000 ug/ml

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
Hongzheng Lu	39942052	Foods	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

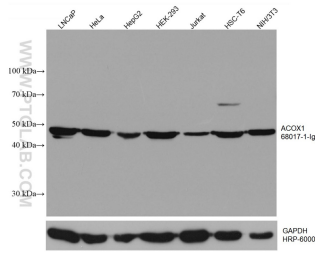
T: 4006900926

E: Proteintech-CN@ptglab.com

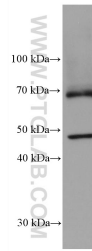
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

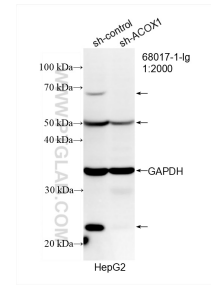
Selected Validation Data



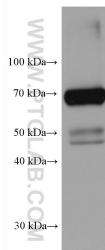
Various lysates were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



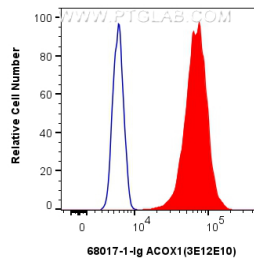
rat liver tissue were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.



1×10^6 NIH/3T3 cells were intracellularly stained with 0.25 μ g ACOX1 Monoclonal antibody (68017-1-Ig, Clone:3E12E10) and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 μ g 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).