

For Research Use Only

ACOX1 Monoclonal antibody, PBS Only

Catalog Number: 68017-1-PBS

Featured Product



Basic Information

Catalog Number:

68017-1-PBS

Size:

100ug, Concentration: 1 mg/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

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat, pig

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 -80°C.

Storage Buffer:

PBS Only

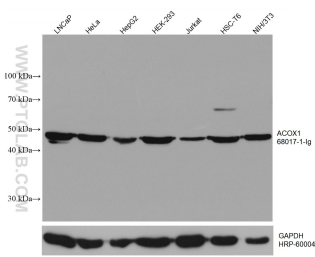
For technical support and original validation data for this product please contact:

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

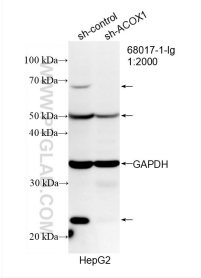
E: proteintech@ptglab.com
W: ptglab.com

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

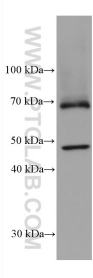
Selected Validation Data



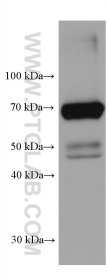
Various lysates were subjected to SDS PAGE followed by western blot with 68017-1-Ig (ACOX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68017-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 68017-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 68017-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 68017-1-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 68017-1-PBS in a