For Research Use Only

ACOT2 Polyclonal antibody

Catalog Number:15633-1-AP 7 Publications

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Basic Information

Catalog Number:
15633-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8093

GenBank Accession Number:
BC006335

GeneID (NCBI):
10965

UNIPROT ID:
P49753

Full Name:
acyl-CoA thioesterase 2

Calculated MW:
483 aa, 53 kDa

Observed MW:
46-53 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : HEK-293 cells, mouse kidney tissue, HepG2 cells, human testis tissue, human brain tissue, human kidney tissue

IP : HepG2 cells,

IHC : human kidney tissue, human skeletal muscle tissue, human heart tissue, human testis tissue, human liver tissue, human spleen tissue, human ovary tissue

IF/ICC : HepG2 cells,

Background Information

Acyl-CoA thioesterase (Acot)2 localizes to the mitochondrial matrix and hydrolyses long-chain fatty acyl-CoA into free FA and CoASH. Acot2 is expressed in highly oxidative tissues and is poised to modulate mitochondrial FA oxidation (FAO) (PMID: 25114170). The structure of ACOT2 consists of two domains, N and C domains, and the active site of ACOT2 is located at the interface between the N and C domains (PMID: 19497300).

Notable Publications

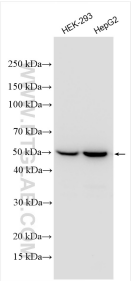
Author	Pubmed ID	Journal	Application
Ebru S. Selen	36441025	J Biol Chem	WB
Satabdi Nandi	32092784	Eur J Immunol	WB
Yuka Murata	31930115	Biomed Res Int	WB

Storage

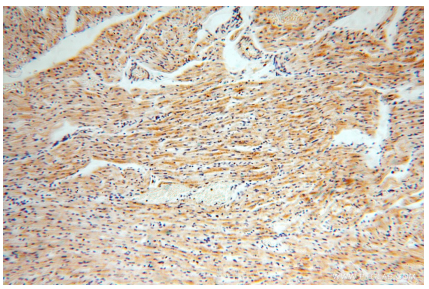
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

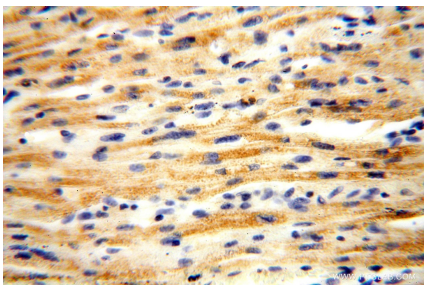
Selected Validation Data



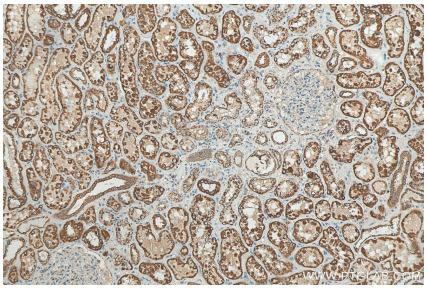
Various lysates were subjected to SDS PAGE followed by western blot with 15633-1-AP (ACOT2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



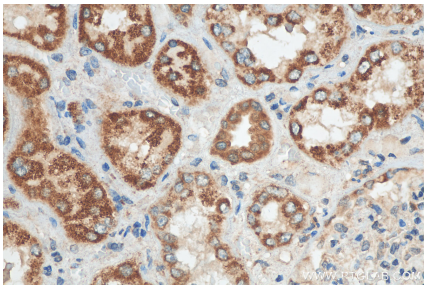
Immunohistochemical analysis of paraffin-embedded human heart using 15633-1-AP (ACOT2 antibody) at dilution of 1:100 (under 10x lens).



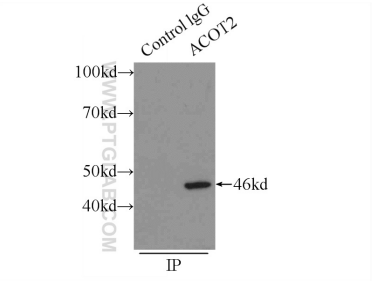
Immunohistochemical analysis of paraffin-embedded human heart using 15633-1-AP (ACOT2 antibody) at dilution of 1:100 (under 40x lens).



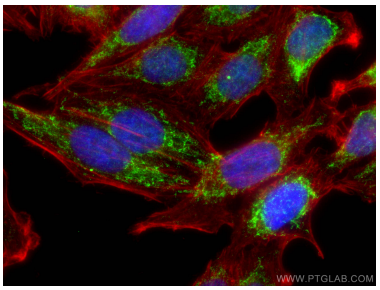
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15633-1-AP (ACOT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15633-1-AP (ACOT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACOT2 (IP:15633-1-AP, 3ug; Detection:15633-1-AP 1:500) with HepG2 cells lysate 1700ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ACOT2 antibody (15633-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).