

For Research Use Only

# ACOT2 Polyclonal antibody

Catalog Number: 15633-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

15633-1-AP

### Size:

400 ug/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, 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:** HEK-293 cells, human brain tissue, human kidney tissue, human testis tissue, mouse kidney tissue, HepG2 cells

**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

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

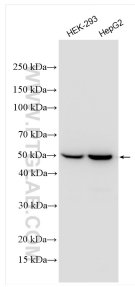
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

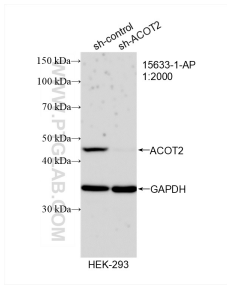
W: [ptgcn.com](http://ptgcn.com)

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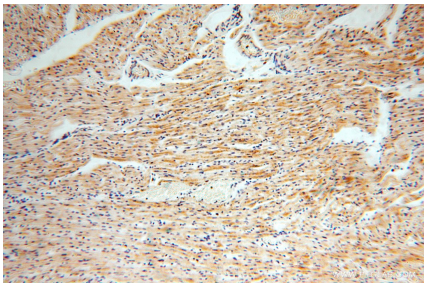
Selected Validation Data



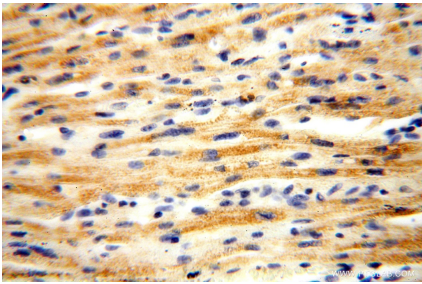
Various lysates were subjected to SDS PAGE followed by western blot with 15633-1-AP (ACOT2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



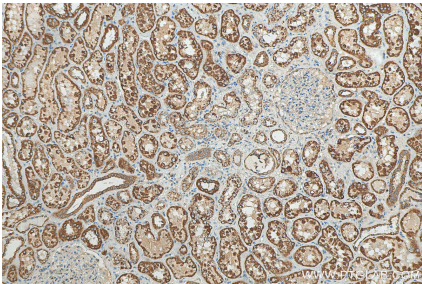
WB result of ACOT2 antibody (15633-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACOT2 transfected HEK-293 cells.



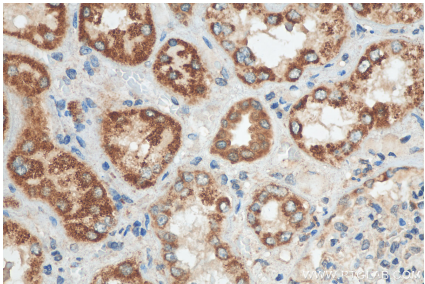
Immunohistochemical analysis of paraffin-embedded human heart using 15633-1-AP (ACOT2 antibody) at dilution of 1:100 (under 10x lens).



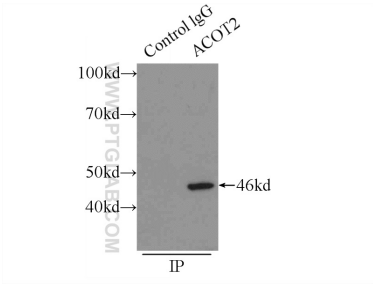
Immunohistochemical analysis of paraffin-embedded human heart using 15633-1-AP (ACOT2 antibody) at dilution of 1:100 (under 40x lens).



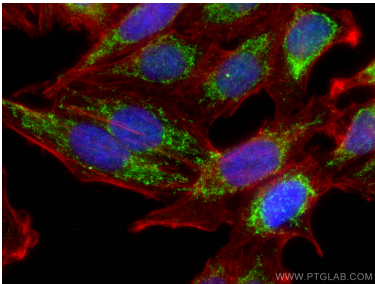
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15633-1-AP (ACOT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).