

For Research Use Only

# ACOT1/2 Recombinant monoclonal antibody

Catalog Number: 82122-5-RR



## Basic Information

<b>Catalog Number:</b> 82122-5-RR	<b>GenBank Accession Number:</b> BC006335	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 10965	<b>CloneNo.:</b> 251453E1
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P49753	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:500
<b>Immunogen Catalog Number:</b> AG8093	<b>Full Name:</b> acyl-CoA thioesterase 2	
	<b>Calculated MW:</b> 483 aa, 53 kDa	
	<b>Observed MW:</b> 46-53 kDa	

## Applications

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

**Species Specificity:**  
human

**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:** L02 cells, U-87 MG cells, HEK-293 cells, HepG2 cells, RT-4 cells

**IHC:** human liver 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). ACOT2 shares 98% homology with ACOT1, and this antibody can detect both ACOT1 and ACOT2.

## 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:

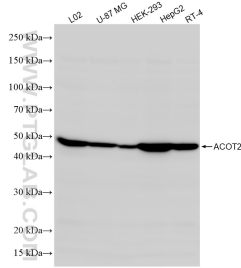
T: 4006900926

E: Proteintech-CN@ptglab.com

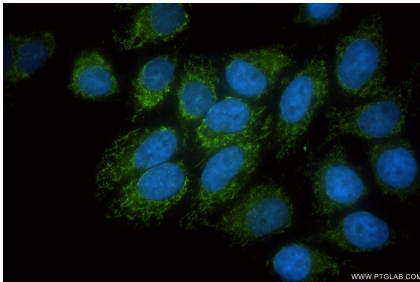
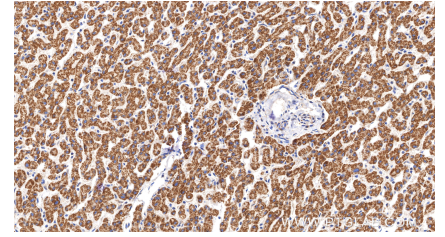
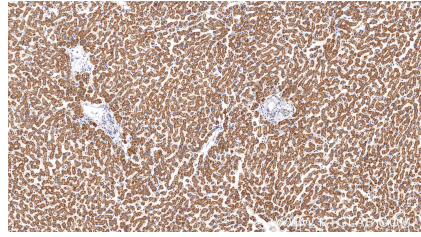
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82122-5-RR (ACOT1/2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ACOT1/2 antibody (82122-5-RR, Clone: 251453E1) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).