

For Research Use Only

ACOT2 Recombinant monoclonal antibody

Catalog Number: 82122-5-RR



Basic Information

Catalog Number: 82122-5-RR	GenBank Accession Number: BC006335	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10965	CloneNo.: 251453E1
Source: Rabbit	UNIPROT ID: P49753	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:500
Isotype: IgG	Full Name: acyl-CoA thioesterase 2	
Immunogen Catalog Number: AG8093	Calculated MW: 483 aa, 53 kDa	
	Observed MW: 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 (Acot2) 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).

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

*** 20ul sizes contain 0.1% BSA

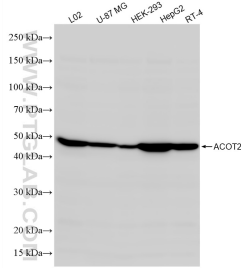
For technical support and original validation data for this product please contact:

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

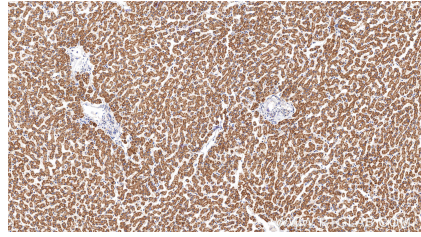
E: proteintech@ptglab.com
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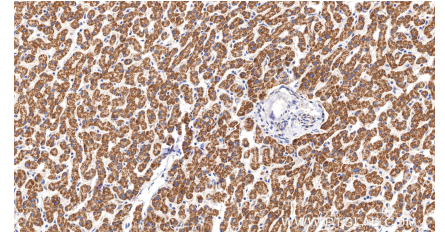
Selected Validation Data



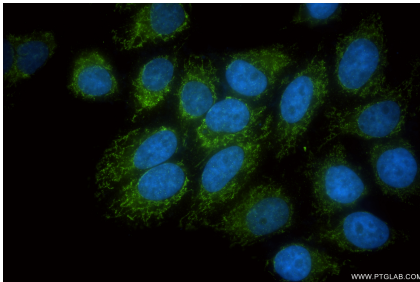
Various lysates were subjected to SDS PAGE followed by western blot with 82122-5-RR (ACOT1/2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82122-5-RR (ACOT2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 82122-5-RR (ACOT2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).