For Research Use Only

ACAT1 Polyclonal antibody

Catalog Number: 16215-1-AP

Featured Product

36 Publications



Basic Information

Catalog Number: 16215-1-AP GenBank Accession Number: BC010942

Antigen affinity purification

Size:

GeneID (NCBI):

Recommended Dilutions:

Purification Method:

150ul, Concentration: 550 ug/ml by

by 38

WB 1:500-1:2000

Nanodrop and 300 ug/ml by Bradford UNIPROT ID:

P24752

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

method using BSA as the standard; Source:

Full Name:

IHC 1:50-1:500

Rabbit

acetyl-Coenzyme A acetyltransferase

IF/ICC 1:50-1:500

WB: mouse heart tissue, Caco-2 cells, human skeletal

Isotype:

1

Calculated MW:

Immunogen Catalog Number:

45 kDa

AG9215

Observed MW:

38-45 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

muscle tissue, MCF-7 cells, rat skeletal muscle tissue, mouse colon tissue

Positive Controls:

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

IP: mouse heart tissue,

human, mouse

Cited Species:

IHC: human colon, human liver tissue

human, mouse, rat, rabbit

Note-IHC: suggested antigen retrieval with

TE buffer pH 9.0; (*) Alternatively, antigen

retrieval may be performed with citrate

buffer pH 6.0

IF/ICC : HeLa cells,

Background Information

ACAT1 (acetyl-CoA acetyltransferase), is a mitochondrial enzyme catalyzing the reversible formation or breakdown of acetoacetyl-CoA and plays important roles in ketogenesis and ketolysis. Deficiency of ACAT1 causes an inherited metabolic disorder. Recently ACAT1 has been reported to get involved in cancer progression.

Notable Publications

Author	Pubmed ID	Journal	Application
De Huang	27644987	Cell Res	WB
Tim Düking	36112685	Sci Adv	WB
Jingqian Guan	33103371	J Cell Mol Med	WB,IF,CoIP

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

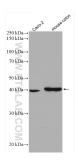
*** 20ul sizes contain 0.1% BSA

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

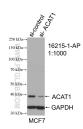
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

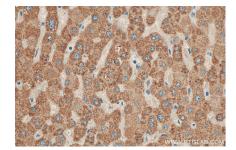
Selected Validation Data



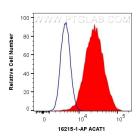
Various lysates were subjected to SDS PAGE followed by western blot with 16215-1-AP (ACAT1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



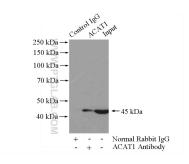
WB result of ACAT1 antibody (16215-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACAT1 transfected MCF-7 cells.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 16215-1-AP (ACAT1 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



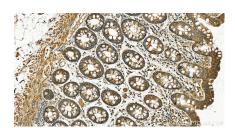
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human ACAT1 (16215-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



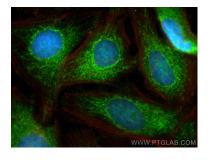
IP result of anti-ACAT1 (IP:16215-1-AP, 4ug; Detection:16215-1-AP 1:500) with mouse heart tissue lysate 4400ug.



Immunohistochemical analysis of paraffinembedded human liver using 16215-1-AP (ACAT1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human colon slide using 16215-1-AP (ACAT1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ACAT1 antibody (16215-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).