For Research Use Only

ACAT1 Polyclonal antibody

Catalog Number: 16215-1-AP

Featured Product

37 Publications

BC010942

GenBank Accession Number:



Purification Method:

WB: 1:500-1:2000

protein lysate

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

100 µl suspension

Antigen affinity purification

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

Basic Information

Applications

Catalog Number: 16215-1-AP Concentration:

Source:

GeneID (NCBI): 600 ug/ml **UNIPROT ID:**

Rabbit P24752 Full Name: Isotype: acetyl-Coenzyme A acetyltransferase FC (Intra): 0.40 ug per 10^6 cells in a

Immunogen Catalog Number: Calculated MW:

AG9215

human, mouse, rat, rabbit

Observed MW: 38-45 kDa

Tested Applications: Positive Controls:

45 kDa

WB, IHC, IF/ICC, FC (Intra), IP, ELISA WB: mouse heart tissue, Caco-2 cells, human skeletal **Cited Applications:** muscle tissue, MCF-7 cells, rat skeletal muscle tissue,

WB, IHC, IF, IP, CoIP mouse colon tissue Species Specificity: IP: mouse heart tissue, human, mouse

IHC: human colon, human liver tissue Cited Species: IF/ICC: HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

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.

FC (Intra): HeLa cells,

Notable Publications

Background Information

Author	Pubmed ID	Journal	Application
De Huang	27644987	Cell Res	WB
Tim Düking	36112685	Sci Adv	WB
Shanshan Zhong	30375985	J Clin Invest	WB

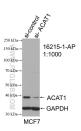
Storage

Store at -20°C. Stable for one year after shipment.

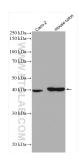
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

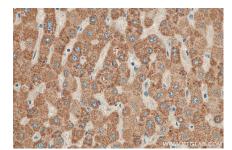
Selected Validation Data



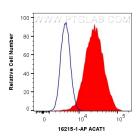
WB result of ACAT1 antibody (16215-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACAT1 transfected MCF-7 cells.



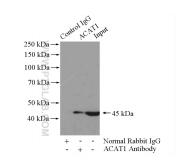
Various lysates were subjected to SDS PAGE followed by western blot with 16215-1-AP (ACAT1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



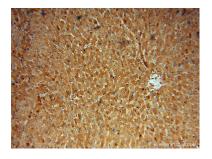
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 16215-1-AP (ACAT1 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



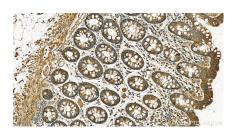
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human ACAT1 (16215-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



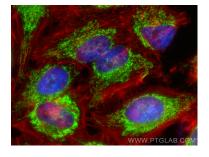
IP result of anti-ACAT1 (IP:16215-1-AP, 4ug; Detection:16215-1-AP 1:500) with mouse heart tissue lysate 4400ug.



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 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).