

ACAT1 Antibody
Rabbit mAb
Catalog # AP92959

Specification

ACAT1 Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	P24752
Reactivity	Rat
Clonality	Monoclonal
Other Names	
ACAT; acat1; MAT; RATACAL; THIL;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	45200 Da

ACAT1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ACAT1
Description	Plays a major role in ketone body metabolism.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

ACAT1 Antibody - Protein Information

Name ACAT1

Synonyms ACAT, MAT

Function

This is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (PubMed: [1715688](http://www.uniprot.org/citations/1715688), PubMed: [7728148](http://www.uniprot.org/citations/7728148), PubMed: [9744475](http://www.uniprot.org/citations/9744475)). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (PubMed: [1715688](http://www.uniprot.org/citations/1715688), PubMed: [7728148](http://www.uniprot.org/citations/7728148), PubMed: [9744475](http://www.uniprot.org/citations/9744475)). The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA (PubMed: [17371050](http://www.uniprot.org/citations/17371050))

target="_blank">17371050). Thereby, it plays a major role in ketone body metabolism (PubMed:1715688, PubMed:17371050, PubMed:7728148, PubMed:9744475).

Cellular Location

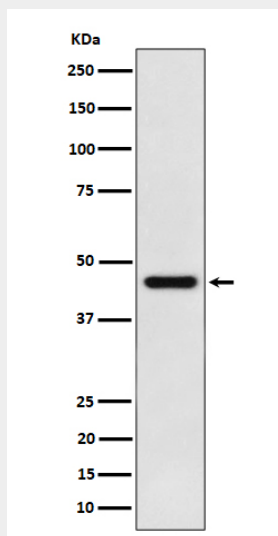
Mitochondrion.

ACAT1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACAT1 Antibody - Images



Western blot analysis of ACAT1 expression in HepG2 cell lysate.