

**ACAT1 (aa257-269) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3063a

**Specification**

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**ACAT1 (aa257-269) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P24752</a>
Other Accession	<a href="#">NP_000010.1</a> , <a href="#">38</a>
Reactivity	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	45200

**ACAT1 (aa257-269) Antibody (internal region) - Additional Information**

**Gene ID** 38

**Other Names**

Acetyl-CoA acetyltransferase, mitochondrial, 2.3.1.9, Acetoacetyl-CoA thiolase, T2, ACAT1, ACAT, MAT

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ACAT1 (aa257-269) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACAT1 (aa257-269) Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>). 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:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>). The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA (PubMed:<a href="http://www.uniprot.org/citations/17371050" target="\_blank">17371050</a>). Thereby, it plays a major role in ketone body metabolism (PubMed:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/17371050" target="\_blank">17371050</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>).

### Cellular Location

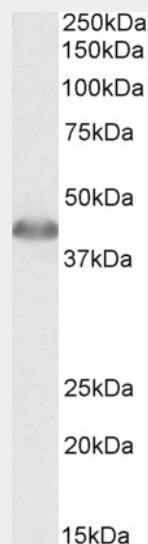
Mitochondrion.

### ACAT1 (aa257-269) Antibody (internal region) - 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 (aa257-269) Antibody (internal region) - Images



AF3063a (0.01 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### ACAT1 (aa257-269) Antibody (internal region) - References

Leptin modulates ACAT1 expression and cholesterol efflux from human macrophages. Hongo S,

Watanabe T, Arita S, Kanome T, Kageyama H, Shioda S, Miyazaki A, American journal of physiology. Endocrinology and metabolism 2009 Aug 297 (2): E474-82. PMID: 19625677