

**Goat anti-ACAT1 (aa257-269), Biotinylated Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF4402a

### Specification

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#### Goat anti-ACAT1 (aa257-269), Biotinylated Antibody - Product Information

Application	WB, IF, Pep-ELISA
Primary Accession	<a href="#">P24752</a>
Other Accession	<a href="#">NP_000010.1</a>
Reactivity	Human, Mouse, Rat, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	45200

#### Goat anti-ACAT1 (aa257-269), Biotinylated Antibody - Additional Information

Gene ID 38

#### Other Names

ACAT1; acetyl-CoA acetyltransferase 1; ACAT; MAT; T2; THIL; acetoacetyl Coenzyme A thiolase; acetoacetyl-CoA thiolase; acetyl-Coenzyme A acetyltransferase 1; mitochondrial acetoacetyl-CoA thiolase

#### Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

#### 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

Goat anti-ACAT1 (aa257-269), Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat anti-ACAT1 (aa257-269), Biotinylated 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:<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.

#### Goat anti-ACAT1 (aa257-269), Biotinylated 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](#)

#### Goat anti-ACAT1 (aa257-269), Biotinylated Antibody - Images