

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

Peptide-affinity purified goat antibody Catalog # AF4402a

## **Product Information**

**Application** WB, IF, Pep-ELISA

 Primary Accession
 P24752

 Other Accession
 NP\_000010.1

**Reactivity** Human, Mouse, Rat, Bovine

Host Goat
Clonality Polyclonal
Clone Names ACAT1
Calculated MW 45200

## **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

**Dilution** WB~~1:1000 IF~~1:50~200 Pep-ELISA~~N/A

**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.

## **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:<u>1715688</u>, PubMed:<u>7728148</u>, PubMed:<u>9744475</u>). 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, PubMed: 7728148, PubMed: 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). Thereby, it plays a major role in ketone body metabolism (PubMed:1715688, PubMed:17371050, PubMed:7728148, PubMed:9744475).

**Cellular Location** Mitochondrion.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.