

**ACAT1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50955**

**Specification**

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**ACAT1 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P24752</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>45 KDa</b>
Antigen Region	<b>211 - 270</b>

**ACAT1 Antibody - Additional Information**

**Gene ID** 38

**Other Names**

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

**Target/Specificity**

KLH conjugated synthetic peptide derived from human ACAT1

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**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: [1715688](http://www.uniprot.org/citations/1715688)).

[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)). Thereby, it plays a major role in ketone body metabolism (PubMed: [1715688](http://www.uniprot.org/citations/1715688), PubMed: [17371050](http://www.uniprot.org/citations/17371050), PubMed: [7728148](http://www.uniprot.org/citations/7728148), PubMed: [9744475](http://www.uniprot.org/citations/9744475)).

### Cellular Location

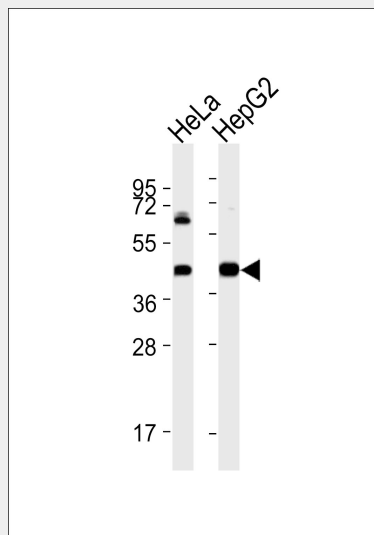
Mitochondrion.

### 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



All lanes : Anti-ACAT1 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### ACAT1 Antibody - Background

Plays a major role in ketone body metabolism.

**ACAT1 Antibody - References**

- Fukao T.,et al.J. Clin. Invest. 86:2086-2092(1990).  
Kano M.,et al.Gene 109:285-290(1991).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Aboulaich N.,et al.Biochem. J. 383:237-248(2004).