

**ACAT1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20741c****Specification**

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**ACAT1 Antibody (C-term) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">P24752</a>
Other Accession	<a href="#">Q8HXY6</a>
Reactivity	<b>Human</b>
Predicted	<b>Monkey</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>45200</b>

**ACAT1 Antibody (C-term) - Additional Information****Gene ID** 38**Other Names**

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

**Target/Specificity**

This ACAT1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 393-426 amino acids from the C-terminal region of human ACAT1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

ACAT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACAT1 Antibody (C-term) - 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](#), PubMed:[7728148](#), PubMed:[9744475](#)). Using free coenzyme A/CoA, catalyzes the thiolitic 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

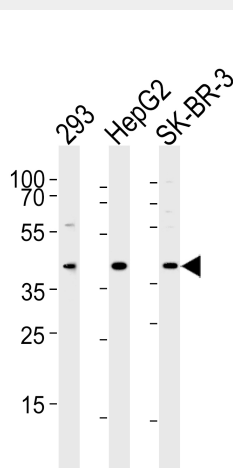
Mitochondrion.

#### ACAT1 Antibody (C-term) - 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 (C-term) - Images



Western blot analysis of lysates from 293, HepG2, SK-BR-3 cell line (from left to right), using ACAT1 Antibody (C-term)(Cat. #AP20741c). AP20741c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

#### ACAT1 Antibody (C-term) - Background

Plays a major role in ketone body metabolism.

**ACAT1 Antibody (C-term) - 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).