

# ACAT1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20741c

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P24752</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50055
Calculated MW	45200

## Additional Information

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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 E~~Use at an assay dependent concentration.
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.

## Protein Information

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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="#">1715688</a> , PubMed: <a href="#">7728148</a> , PubMed: <a href="#">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:[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.

## Background

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Plays a major role in ketone body metabolism.

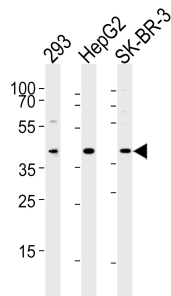
## References

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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).

## Images

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