

# ACAT-1 Polyclonal Antibody

Catalog # AP68254

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P24752</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45200

## Additional Information

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Gene ID	38
Other Names	ACAT1; ACAT; MAT; Acetyl-CoA acetyltransferase; mitochondrial; Acetoacetyl-CoA thiolase; T2
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

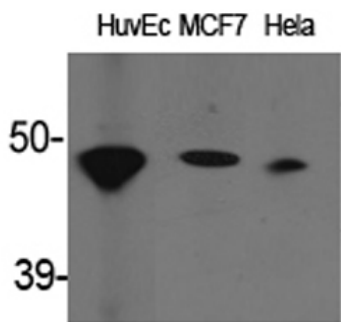
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Name	ACAT1
Synonyms	ACAT, MAT
Function	<p>This is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (PubMed:<a href="#">1715688</a>, PubMed:<a href="#">7728148</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:<a href="#">1715688</a>, PubMed:<a href="#">7728148</a>, PubMed:<a href="#">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="#">17371050</a>). Thereby, it plays a major role in ketone body metabolism (PubMed:<a href="#">1715688</a>, PubMed:<a href="#">17371050</a>, PubMed:<a href="#">7728148</a>, PubMed:<a href="#">9744475</a>).</p>
Cellular Location	Mitochondrion.

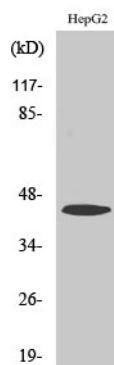
# Background

Plays a major role in ketone body metabolism.

# Images



Western Blot analysis of various cells using ACAT-1 Polyclonal Antibody



Western Blot analysis of A549 cells using ACAT-1 Polyclonal Antibody

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