10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACAT1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS14505

Specification

ACAT1 Antibody - Product Information

Application	**IHC**
Primary Accession	P24752
Reactivity	**Human, Mouse, Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45kDa KDa**

ACAT1 Antibody - Additional Information

Gene ID 38

Other Names
Acetyl-CoA acetyltransferase, mitochondrial, 2.3.1.9, Acetoacetyl-CoA thiolase, T2, ACAT1, ACAT, MAT

Target/Specificity
This Polyclonal antibody is directed against human ACAT1 protein. The product was purified from serum by protein A chromatography. Cross-reactivity with ACAT1 from other sources has not been determined.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
ACAT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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, PubMed:7728148, PubMed: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, PubMed:7728148, PubMed:<a

href="http://www.uniprot.org/citations/9744475" target="_blank">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:17371050, PubMed:1715688, PubMed:7728148, PubMed:9744475).

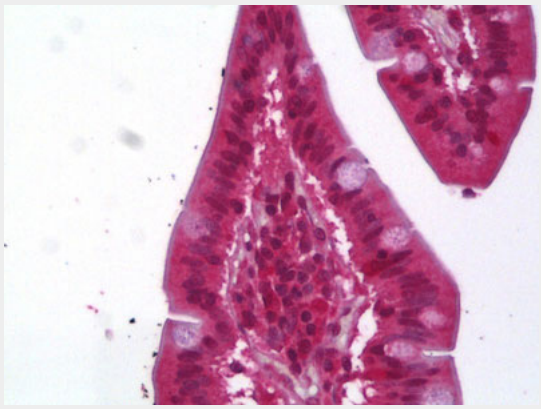
Cellular Location
Mitochondrion.

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 Cytomety
- Cell Culture

ACAT1 Antibody - Images



Anti-ACAT1 antibody IHC of human small intestine.

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).
Taylor T.D.,et al.Nature 440:497-500(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.