

ACAT1 (aa257-269) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3063a

Specification

ACAT1 (aa257-269) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P24752
Other Accession	NP_000010.1 , 38
Reactivity	Human, Mouse, Rat
Predicted	Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	45200

ACAT1 (aa257-269) Antibody (internal region) - Additional Information

Gene ID 38

Other Names

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ACAT1 (aa257-269) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ACAT1 (aa257-269) Antibody (internal region) - 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:<a

<http://www.uniprot.org/citations/9744475> target="_blank">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: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 (aa257-269) Antibody (internal region) - 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 (aa257-269) Antibody (internal region) - Images



AF3063a (0.01 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ACAT1 (aa257-269) Antibody (internal region) - References

Leptin modulates ACAT1 expression and cholesterol efflux from human macrophages. Hongo S, Watanabe T, Arita S, Kanome T, Kageyama H, Shioda S, Miyazaki A, American journal of physiology. Endocrinology and metabolism 2009 Aug 297 (2): E474-82. PMID: 19625677