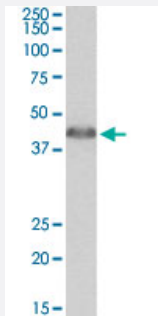


ACAT1 polyclonal antibody

Catalog # PAB18742 Size 100 ug

Applications



Western Blot (Tissue lysate)

ACAT1 polyclonal antibody (Cat # PAB18742) (0.01 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ACAT1.
Immunogen	A synthetic peptide corresponding to amino acids 257-269 at internal region of human ACAT1.
Sequence	C-KRVDFSKVPKLKT
Host	Goat
Theoretical MW (kDa)	45
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:8000) Western Blot (0.01-0.03 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

ACAT1 polyclonal antibody (Cat # PAB18742) (0.01 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ACAT1

Entrez GeneID[38](#)**Protein Accession#**[NP_000010.1](#)**Gene Name**

ACAT1

Gene Alias

ACAT, MAT, T2, THIL

Gene Description

acetyl-Coenzyme A acetyltransferase 1

Omim ID[203750 607809](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of a cetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone. [provided by RefSeq]

Other Designations

acetoacetyl Coenzyme A thiolase

Pathway

- [Benzoate degradation via CoA ligation](#)

- [Butanoate metabolism](#)

- [Fatty acid metabolism](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Synthesis and degradation of ketone bodies](#)
- [Terpenoid backbone biosynthesis](#)
- [Tryptophan metabolism](#)
- [Valine](#)

Disease

- [Alzheimer disease](#)
- [Amino Acid Metabolism](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)