

ACAT1 polyclonal antibody

Catalog # PAB12498 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant ACAT1.
Immunogen	Recombinant protein corresponding to N-terminus of human ACAT1.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to ACAT1.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunoprecipitation

Gene Info — ACAT1

Entrez GeneID	38
Protein Accession#	P24752

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-ket othiolase 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

Publication Reference

- [Androgens augment renal vascular responses to ANG II in New Zealand genetically hypertensive rats.](#)

Song J, Kost CK Jr, Martin DS.

American Journal of Physiology. Regulatory, Integrative and Comparative Physiology 2006 Jun; 290(6):R1608.

Application: WB-Ti, Rat, Rat renal cortex tissues

- [Regulation and immunolocalization of acyl-coenzyme A: cholesterol acyltransferase in mammalian cells as studied with specific antibodies.](#)

Chang CC, Chen J, Thomas MA, Cheng D, Del Priore VA, Newton RS, Pape ME, Chang TY.

The Journal of Biological Chemistry 1995 Dec; 270(49):29532.

Application: IF, IP, WB-Ce, WB-Ti, WB-Tr, Hamster, Human, A2508 cells, A-431 cells, AC29-K1 cells, Brains, Caco-2 cells, Hearts, HepG2 cells, Hf, Human fibroblasts, Kidneys, Livers, Lungs, MDA-MB-231 cells, Skeletal muscles

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](#)