

ACAT1 monoclonal antibody (M01), clone 2B7

Catalog # H00000038-M01

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant ACAT1.
Immunogen	ACAT1 (AAH10942, 1 a.a. ~ 162 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAVLPALLRSGARSRSPLLRRLVQEIRYVERSYVSKPTLKEVVV/SATRTPIGSFLGSLSLLPATKL GSIAIQGAIEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGAGLPISTPCTTINKVCASGMKAIM MASQSLMCGHQIKQETGSLAKICCHVRR
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (86); Rat (85)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — ACAT1

Entrez GeneID [38](#)

GeneBank Accession# [BC010942](#)

Protein Accession#	AAH10942
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

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](#)