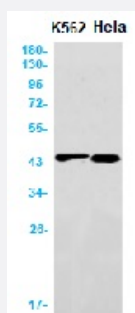


RecomAb™

ACAT1 recombinant monoclonal antibody, clone R02-5G8

Catalog # RAB01635 Size 100 uL

Applications



Western Blot

Western blot analysis of ACAT1 in K562, HeLa lysates using human ACAT1 recombinant monoclonal antibody, clone R02-5G8 (Cat # RAB01635).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human ACAT1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ACAT1
Theoretical MW (kDa)	Calculated MW: 45 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C for short term. For long term storage 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

Western blot analysis of ACAT1 in K562, Hela lysates using human ACAT1 recombinant monoclonal antibody, clone R02-5G8 (Cat # RAB01635).

- 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-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](#)