Product Name: ACAT-1 Rabbit Polyclonal Antibody

Catalog #: APRab06470



Summary

Production Name ACAT-1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name ACAT1

ACAT1; ACAT; MAT; Acetyl-CoA acetyltransferase; mitochondrial; Acetoacetyl-CoA Alternative Names

thiolase; T2

Gene ID 38.0

P24752.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

ACAT1. AA range:221-270

Application

Dilution Ratio WB 1:500 - 1:2000. ELISA: 1:40000..

Molecular Weight 45kD

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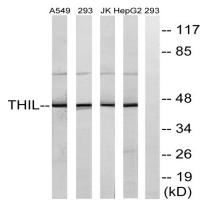
Background

This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-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, Feb 2009],catalytic activity:2 acetyl-CoA = CoA + acetoacetyl-CoA.,disease:Defects in ACAT1 are a cause of 3-ketothiolase deficiency (3KTD) [MIM:203750]; also known as alpha-methylacetoaceticaciduria. 3KTD is an inborn error of isoleucine catabolism characterized by intermittent ketoacidotic attacks associated with unconsciousness. Some patients die during an attack or are mentally retarded. Urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, triglylglycine, butanone is increased. It seems likely that the severity of this disease correlates better with the environmental or acquired factors than with the ACAT1 genotype.,enzyme regulation:Activated by potassium ions, but not sodium ions.,function:Plays a major role in ketone body metabolism.,similarity:Belongs to the thiolase family.,subunit:Homotetramer.,

Research Area

Fatty acid metabolism;Synthesis and degradation of ketone bodies;Valine; leucine and isoleucine degradation;Lysine degradation;Tryptophan metabolism;Pyruvate metabolism;Propanoate metabolism;Butanoate metabolism;Terpenoid backbone biosynthesis;

Image Data

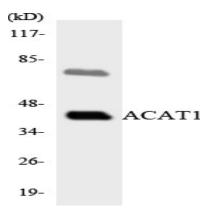


Western blot analysis of lysates from HepG2, Jurkat, 293, and A549 cells, using ACAT1 Antibody. The lane on the right is blocked with the synthesized peptide.

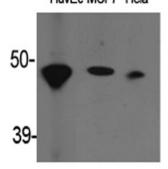
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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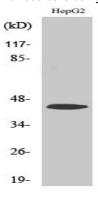




Western blot analysis of the lysates from HepG2 cells using ACAT1 antibody. HuvEc MCF7 Hela



Western Blot analysis of various cells using ACAT-1 Polyclonal Antibody



Western Blot analysis of A549 cells using ACAT-1 Polyclonal Antibody

Note

For research use only.