

产品名称: ACAT-1 Rabbit Polyclonal Antibody
产品货号: APRab06470



产品概述 (Summary)

产品名称 (Production Name)	ACAT-1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ACAT1
别名 (Alternative Names)	ACAT1; ACAT; MAT; Acetyl-CoA acetyltransferase; mitochondrial; Acetoacetyl-CoA thiolase; T2
基因 ID (Gene ID)	38.0
蛋白 ID (SwissProt ID)	P24752.The antiserum was produced against synthesized peptide derived from human ACAT1. AA range:221-270

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量 (Molecular Weight)	45kDa

产品名称: ACAT-1 Rabbit Polyclonal Antibody
产品货号: AP Rab06470



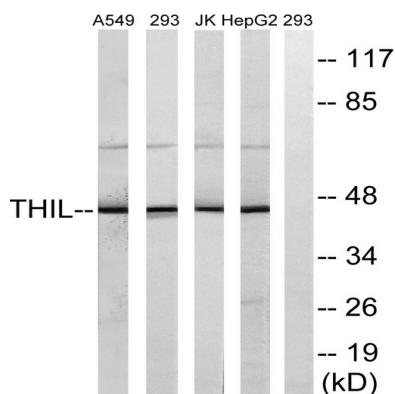
研究背景 (Background)

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.,

研究领域 (Research Area)

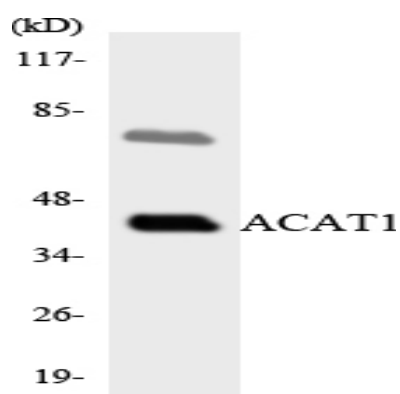
Fatty acid metabolism; Synthesis and degradation of ketone bodies; Valine; leucine and isoleucine degradation; Lysine degradation; Tryptophan metabolism; Pyruvate metabolism; Propanoate metabolism; Butanoate metabolism; Terpenoid backbone biosynthesis;

图片 (Image Data)

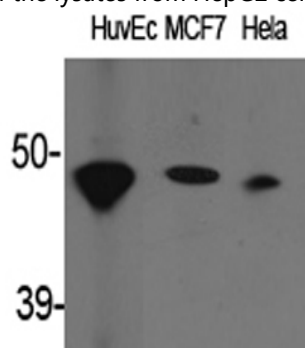


Western blot analysis of lysates from HepG2, Jurkat, 293, and A549 cells, using ACAT1 Antibody. The lane on the right is blocked with the synthesized peptide.

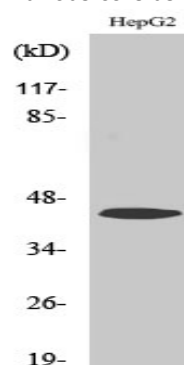
产品名称: ACAT-1 Rabbit Polyclonal Antibody
产品货号: AP Rab06470



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



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



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

注意事项 (Note)

For research use only .