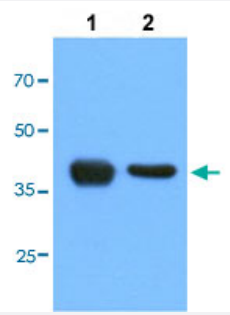
ACAT1 monoclonal antibody, clone AT2C5

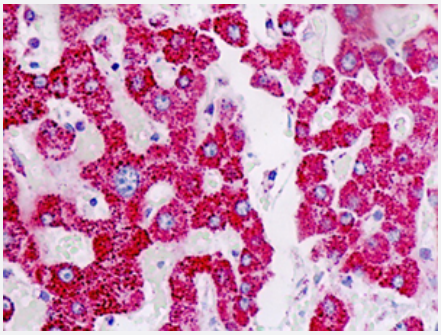
Catalog # MAB12459 Size 50 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane 1: HepG2 cells, Lane 2: HeLa cells with ACAT1 monoclonal antibody, clone AT2C5 (Cat # MAB12459) at 1:1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human liver tissue with ACAT1 monoclonal antibody, clone AT2C5 (Cat # MAB12459) under 10 ug/mL working concentration.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human ACAT1.
Immunogen	Recombinant protein corresponding to amino acids 34-427 of human ACAT1.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1, kappa

Recommend Usage	ELISA Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. 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 shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: HepG2 cells, Lane 2: HeLa cells with ACAT1 monoclonal antibody, clone AT2C5 (Cat # MAB12459) at 1:1000 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ACAT1

Entrez GeneID	38
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