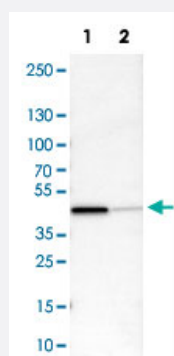


ACAT1 polyclonal antibody

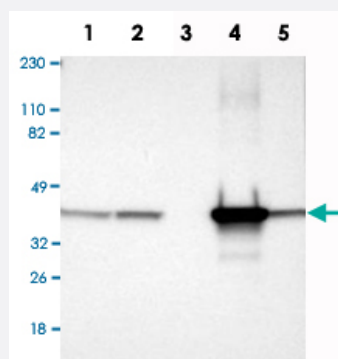
Catalog # PAB30691 Size 100 uL

Applications



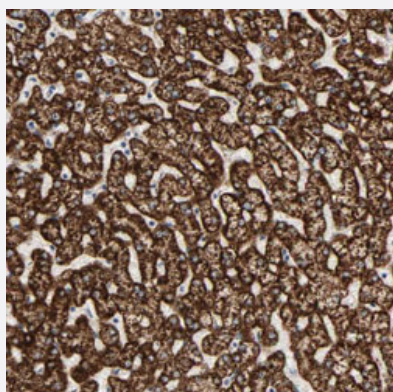
Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with ACAT1 polyclonal antibody (Cat # PAB30691).



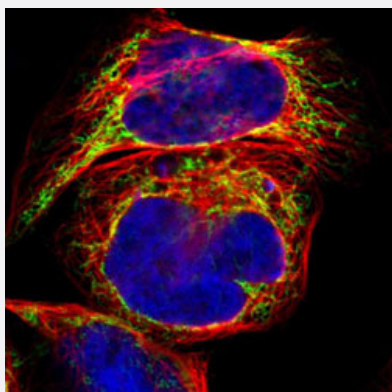
Western Blot

Western Blot analysis of Lane 1: RT-4, Lane 2: U-251MG sp, Lane 3: human plasma (IgG/HSA depleted), Lane 4: human liver and Lane 5: human tonsil lysates with ACAT1 polyclonal antibody (Cat # PAB30691).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human liver with ACAT1 polyclonal antibody (Cat # PAB30691) shows strong cytoplasmic positivity in hepatocytes.



Immunofluorescence

Immunofluorescent staining of A-431 cells with ACAT1 polyclonal antibody (Cat # PAB30691) (Green) shows positivity in mitochondria.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human ACAT1.
Immunogen	Recombinant protein corresponding to human ACAT1.
Sequence	VSATRTPIGSFLGSLSLPATKLGSIAIQGAIEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGA GLPISTPCTTINKVCASGMKAIMMASQSLMCGHQDVMVAGGMESMSNPYVMNRGSTPYGGVKL EDLVKDGLTD
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% 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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with ACAT1 polyclonal antibody (Cat # PAB30691).

- Western Blot

Western Blot analysis of Lane 1: RT-4, Lane 2: U-251MG sp, Lane 3: human plasma (IgG/HSA depleted), Lane 4: human liver and Lane 5: human tonsil lysates with ACAT1 polyclonal antibody (Cat # PAB30691).

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human liver with ACAT1 polyclonal antibody (Cat # PAB30691) shows strong cytoplasmic positivity in hepatocytes.

- Immunofluorescence

Immunofluorescent staining of A-431 cells with ACAT1 polyclonal antibody (Cat # PAB30691) (Green) shows positivity in mitochondria.

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-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](#)