

ACAT1 Rabbit pAb

Catalog No.: A13273SP

Basic Information

Observed MW

42 kDa

Calculated MW

45 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB 1:1000 - 1:50000

IF/ICC 1:200 - 1:800

IHC-P 1:200 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

38

Swiss Prot

P24752

Immunogen

This information is considered to be commercially sensitive.

Synonyms

T2; MAT; ACAT; THIL; ACAT1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

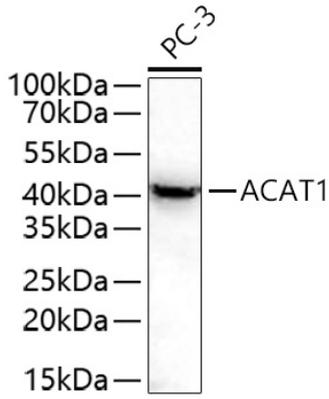
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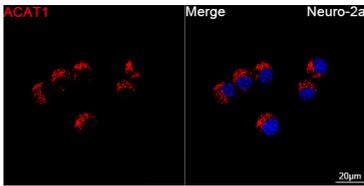
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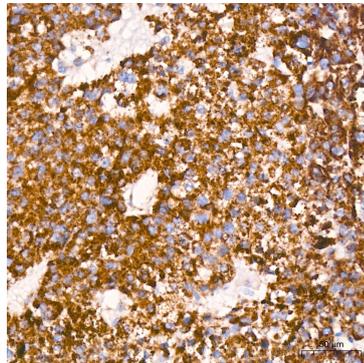
Validation Data



Western blot analysis of lysates from PC-3 cells using ACAT1 Rabbit pAb (A13273SP) at 1:50000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Confocal imaging of Neuro-2a cells using ACAT1 Rabbit pAb (A13273SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using ACAT1 Rabbit pAb (A13273SP) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.