Leader in Biomolecular Solutions for Life Science

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ACAT1 Rabbit mAb

Catalog No.: A24813

Recombinant

Basic Information

Observed MW
45 kDa

Calculated MW
45 kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC64030

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	1:5000 - 1:40000
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.

Immunogen Information

Gene ID
38

Swiss-Prot
P24752

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
T2; MAT; ACAT; THIL; ACAT1

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

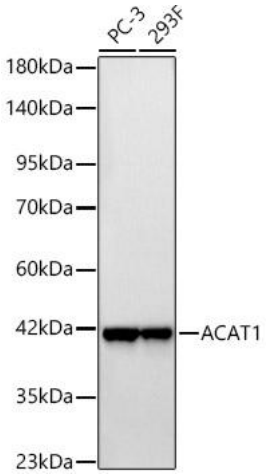
Source
Rabbit

Isotype
IgG

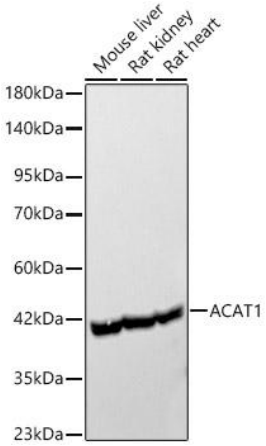
Purity
Affinity purification

Storage
Store at -20℃

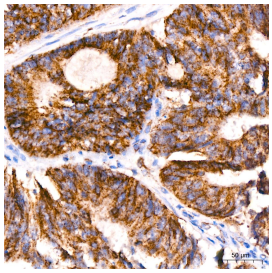
Validation Data



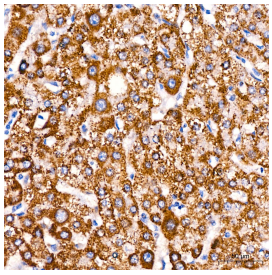
Western blot analysis of various lysates, using ACAT1 Rabbit mAb (A24813) at 1: 9000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



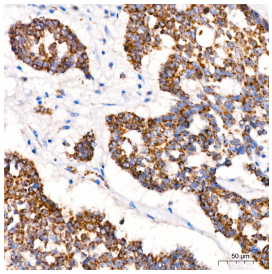
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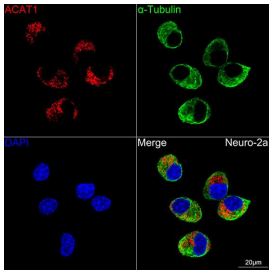
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using ACAT1 Rabbit mAb (A24813) at dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using ACAT1 Rabbit mAb (A24813) at dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using ACAT1 Rabbit mAb (A24813) at dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of Neuro-2a cells using ACAT1 Rabbit mAb (A24813,dilution 1: 200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.