

Human ACAT2 antibody

Catalog Number: ATGA0579

PRODUCT INFORMATION

Catalog number

ATGA0579

Clone No.

AT55D5

Product type

Monoclonal antibody

UnitProt No.

Q9BWD1

NCBI Accession No.

NP_005882

Alternative Names

Acetyl-CoA acetyltransferase cytosolic, ACTL, Acetyl-CoA acetyltransferase, cytosolic

Additional Information

This product was produced from tissue culture supernatant.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human ACAT2 (1-397aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

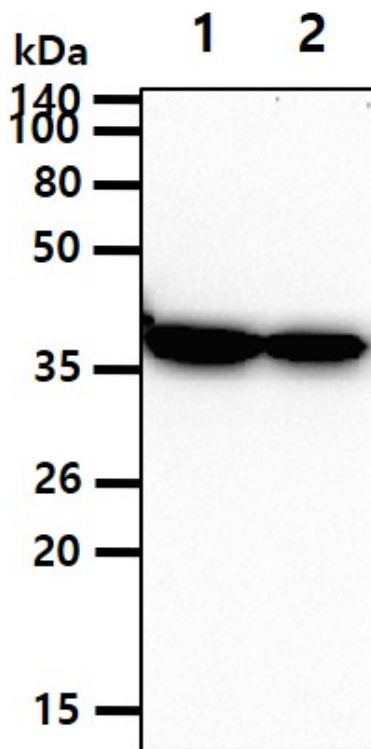
Acetyl-CoA acetyltransferase, cytosolic, also known as cytosolic acetoacetyl-CoA thiolase, is an enzyme that in humans is encoded by the ACAT (acetyl-Coenzyme A acetyltransferase 2) gene. ACAT2 is an acetyl-CoA acetyltransferase enzyme, plays a role in regulating lipid metabolism. It catalyzes the synthesis of acetoacetyl-CoA from two acetyl-CoA molecules, which is later converted into steroids.

General References

Shintani S., et al. (1999) *Genetics*. 152(2): 743-754.
Middleton B., et al. (1974) *Biochem J*. 139(1): 109-121.

DATA

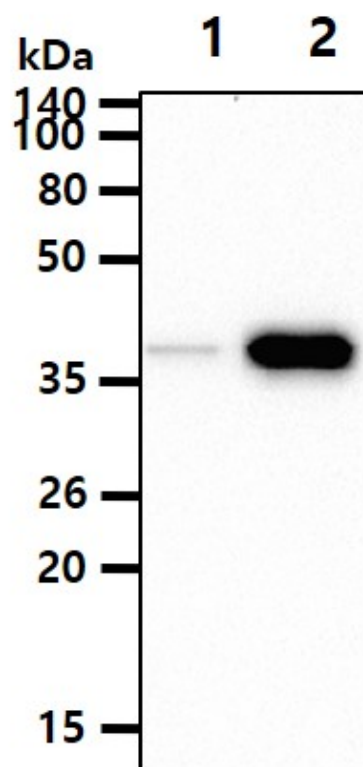
Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HepG2 cell lysate
Lane 2.: Ramos cell lysate

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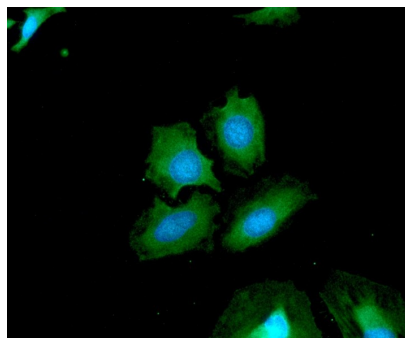


The cell lysates(5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: ACAT2 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ACAT2 in HeLa cells. The cell was stained with ATGA0579 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).