

Human ACAT2 antibody

Catalog Number: ATGA0335

PRODUCT INFORMATION

Catalog number

ATGA0335

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

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, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS 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

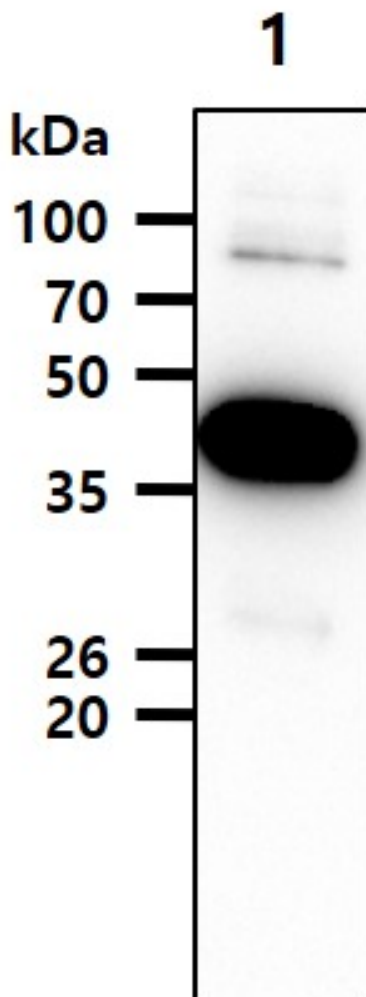
Acetyl-CoA acetyltransferase, cytosolic, also known as cytosolic acetoacetyl-CoA thiolase, is an enzyme that in humans is encoded by the ACAT (acetyl-Coenzyme A acetyltransferase 2) gene. ACAT2 is an acetyl-CoA C-acetyltransferase enzyme, plays a role in regulating lipid metabolism. It catalyzes the 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

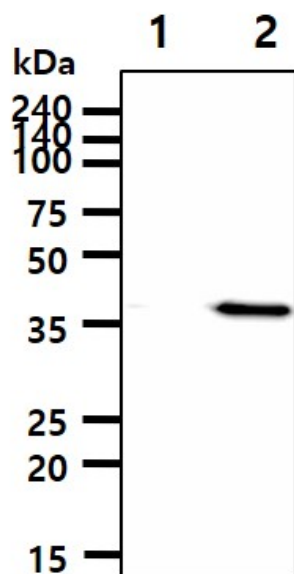
Western blot analysis (WB)



The recombinant protein (50ng) was 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.: Recombinant human ACAT2 protein

Human ACAT2 antibody

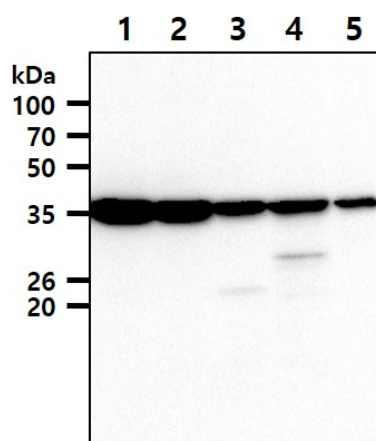
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The cell lysates(5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: ACAT2 Transfected 293T cell lysate



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

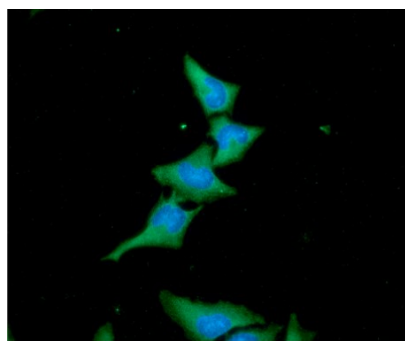
Lane 2.: Ramos cell lysate

Lane 3.: MCF7 cell lysate

Lane 4.: HL-60 cell lysate

Lane 5.: SW480 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

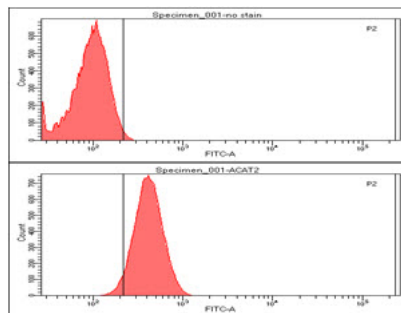


ICC/IF analysis of ACAT2 in HeLa cells. The cell was stained with ATGA0335 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of ACAT2 in PC3 cells. The cell was stained with ATGA0335 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).