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# **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**

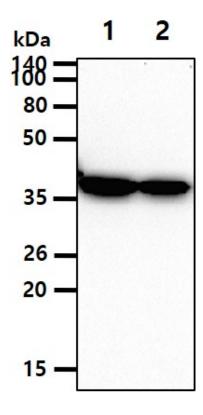
Acetyl-CoA acetyltransferase, cytosolic, also known as cytosolic acetoacetyl-CoA thiolase, is an enzyme that inhumans is encoded by the ACAT (acetyl-Coenzyme A acetyltransferase 2) gene. ACAT2 is an acetyl-CoAC-acetyltransferase enzyme, plays a role in regulating lipid metabolism. It catalyzes the synthesis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



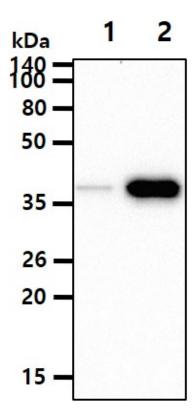
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate Lane 2.: Ramos cell lysate



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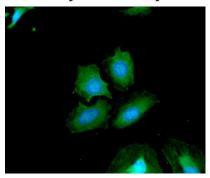


The cell lysates(5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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).

