

## Monoclonal anti-human ACAT2 antibody (clone AT55D5)

Mouse IgG<sub>2b</sub>, κ

Cat. No. IBATGA0335

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

**NCBI Accession No.:** NP\_005882

**Isotype:** Mouse IgG<sub>2b</sub> heavy chain and κ light chain

**Clone:** Anti-human ACAT2 mAb, clone AT55D5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACAT2 protein.

**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.

**Concentration:** 1mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

**Storage:** Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

**Application:** ELISA, WB, Flow cytometry, ICC/IF

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

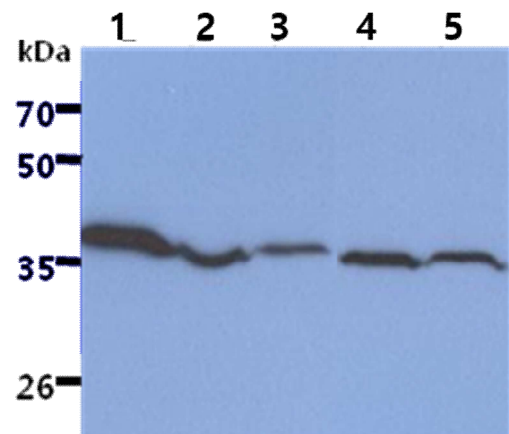
Immuno-Biological Laboratories, Inc. (IBL-America)  
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# Product information

## Western blot analysis

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.: MCF-7 cell lysate
- Lane 4.: HL-60 cell lysate
- Lane 5.: SW480 cell lysate



## Western blot analysis

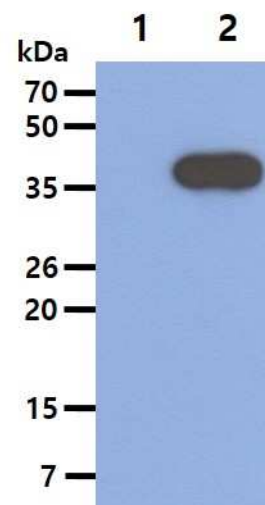
The Recombinant Human ACAT2 (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



## Western blot analysis

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

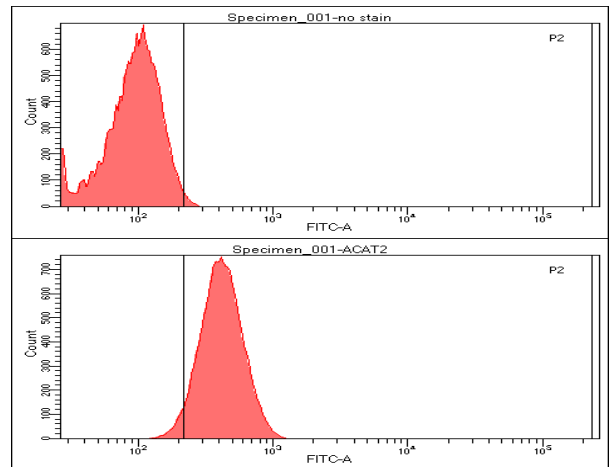


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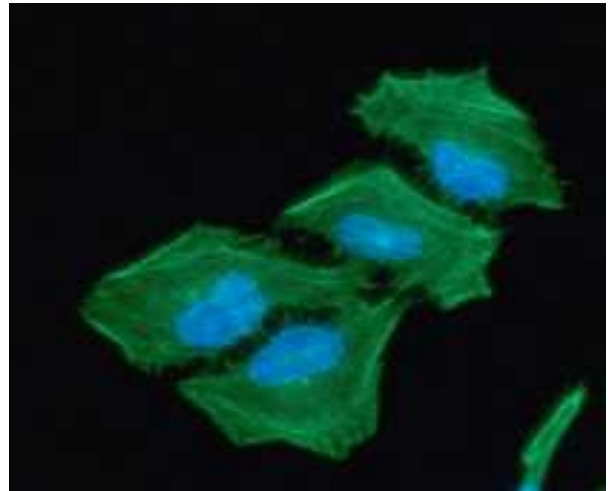
## Flow cytometry

Flow cytometry analysis of ACAT2 in PC3 cell line, staining at 2-5ug for  $1 \times 10^6$  cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



## ICC/IF analysis

ICC/IF analysis of ACAT2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACAT2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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

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