

# Human ACOT8 antibody

Catalog Number: ATGA0353

## PRODUCT INFORMATION

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**Catalog number**

ATGA0353

**Clone No.**

AT4D10

**Product type**

Monoclonal Antibody

**UnitProt No.**

O14734

**NCBI Accession No.**

NP\_005460

**Alternative Names**

Acyl-coenzyme A thioesterase 8, hACTE-III, HNAACTE, the, PTE-1, PTE-2, PTE1, PTE2

## PRODUCT SPECIFICATION

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**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 ACOT8 (1-319aa) purified from E. coli

**Isotype**

IgG2a 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

Acyl-coenzyme A thioesterase 8 is an enzyme that in humans is encoded by the ACOT8 gene. The protein encoded by this gene is a peroxisomal thioesterase that appears to be involved more in the oxidation of fatty acids rather than in their formation. The encoded protein can bind to the human immunodeficiency virus-1 protein Nef, and mediate Nef-induced down-regulation of CD4 in T-cells. Multiple transcript variants encoding several different isoforms have been found for this gene.

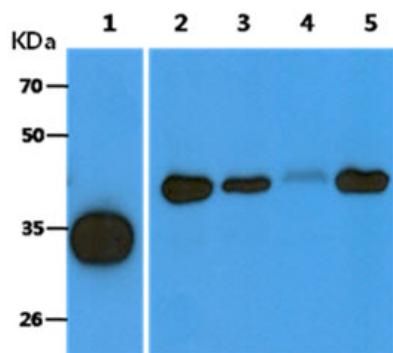
### General References

Jones JM., et al. (1999) J Biol Chem. 274(14): 9216-9223.

Liu LX., et al.(1997) J Biol Chem. 272(21): 13779-13785.

## DATA

### Western blot analysis (WB)



The recombinant Human ACOT8 (10ng) and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACOT8 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 ACOT8

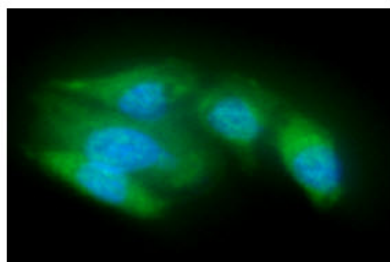
Lane 2.: Ramos cell lysate

Lane 3.: A431 cell lysate

Lane 4 : 293T cell lysate

Lane 5 : A549 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

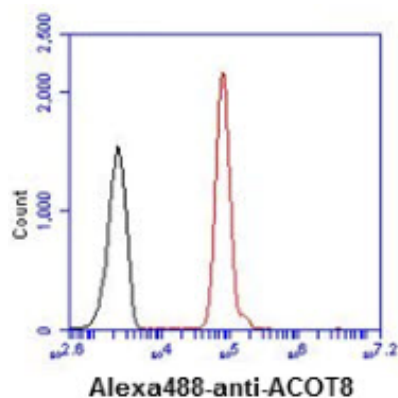


ICC/IF analysis of ACOT8 in A549 cells. The cell was stained with ATGA0353 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

### Flow cytometry (FACS)

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Flow cytometry analysis of ACOT8 in CTLL-2 cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).