

Monoclonal anti-human ACOT8 antibody (AT4D10)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0353

Immunogen: Recombinant human ACOT8 (1-319aa) purified from *E. coli*

NCBI Accession No.: NP_005460

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human ACOT8 mAb, clone AT4D10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACOT8 protein.

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.

Concentration: 1 mg/ml

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF, Flow cyt

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

Product information

Western blot analysis

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.

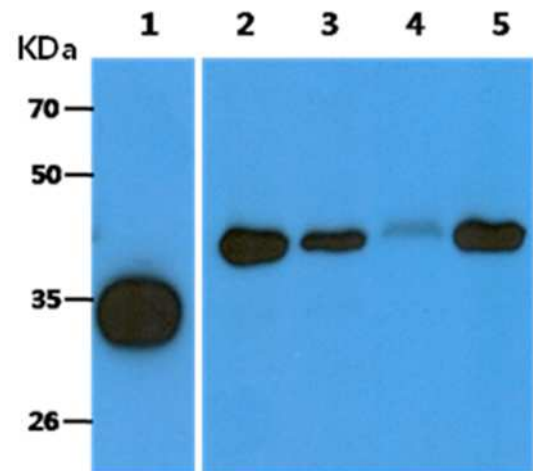
Lane 1.: Recombinant Human ACOT8

Lane 2.: Ramos cell lysate

Lane 3.: A431 cell lysate

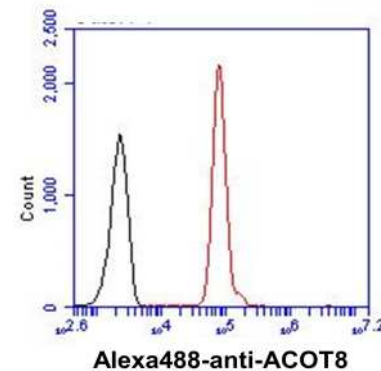
Lane 4 : 293T cell lysate

Lane 5 : A549 cell lysate



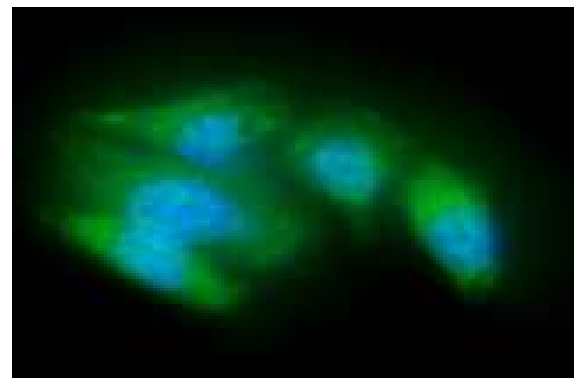
Flow cytometry

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



ICC/IF analysis

ICC/IF analysis of ACOT8 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACOT8 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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.

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