

Acetyl-CoA acyltransferase 1 (ACAA1) monoclonal antibody

Cat. no. A21984

Components:	100 µg monoclonal antibody
Lot no.:	See product label
Clone/PAD:	2H6BE7
Isotype:	Mouse IgG1, Kappa
Gene ID:	30
Gene Symbol:	ACAA1
Alternative Names:	acetyl-CoA acyltransferase 1, ACAA, THIO, PTHIO
Concentration:	1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% sodium azide as a preservative
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Reactivity:	Human, rat, mouse
Immunogen:	Human liver mitochondria
Validated Applications:	Western blotting, Immunocytochemistry, In-Cell ELISA
Suggested Working Concentration:	1 µg/mL for immunocytochemistry, 5 µg/mL for Western blotting (This is a starting working concentration. The optimal antibody concentration should be determined empirically for each specific application.)
Storage:	Store at 2–8°C. Do not freeze.
Expiration Date:	See product label.

Target Background:

ACAA1 encodes an enzyme that participates in the beta-oxidation system of the peroxisomes. Alternative splicing of the gene results in multiple transcript variants.

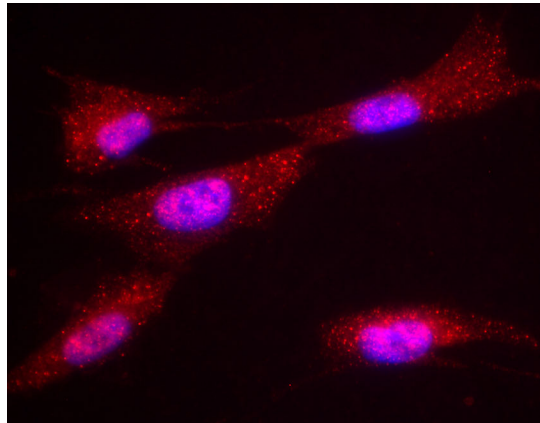


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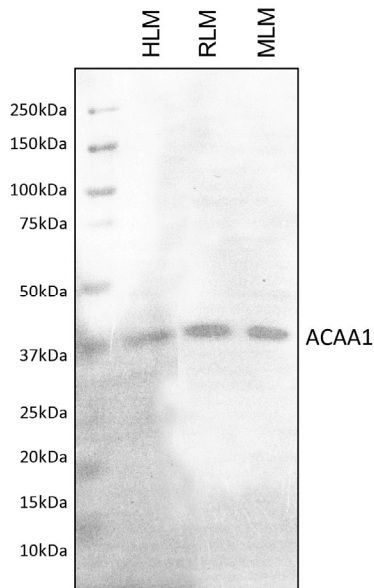
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Immunocytochemistry image of Acetyl-CoA acyltransferase 1 (ACAA1) monoclonal antibody. Human HDFn cells were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton[®] X-100 for 15 minutes. The cells were pretreated with heated antigen retrieval buffer (100 mM Tris, 5% urea, pH 9.5) for 10 minutes at 95°C, and then incubated with 5 µg/mL of the antibody overnight at 4°C. Alexa Fluor[®] 594 goat anti-mouse IgG (H+L) was used as a secondary antibody at a 1/1,000 dilution for 1 hour (red). 10% Goat serum was used as the blocking agent for all blocking steps. The cell nuclei were counterstained with DAPI (blue). Target protein locates mainly in peroxisome.



Western Blot image of Acetyl-CoA acyltransferase 1 (ACAA1) monoclonal antibody. Samples were separated by SDS-PAGE (gradient gel, 10–20%). The bands were transferred to a PVDF membrane and incubated with the primary antibody at the recommended working concentration. AP-conjugated GAM secondary antibodies were used at a 1:3,000 dilution for detection and the signal was developed with AP development kit.

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