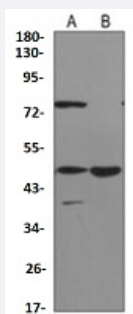


RecomAb™

# ACOX1 recombinant monoclonal antibody

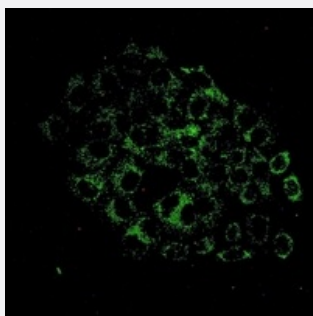
Catalog # RAB02463      Size 100 uL

## Applications



### Western Blot

Western blot analysis of Raw264.7 (A), mouse liver (B) whole cell lysates with ACOX1 recombinant monoclonal antibody (Cat # RAB02463).



### Immunofluorescence

Immunofluorescent analysis of HeLa cells with ACOX1 recombinant monoclonal antibody (Cat # RAB02463). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against mouse ACOX1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of mouse ACOX1.
Theoretical MW (kDa)	50, 72
Reactivity	Human, Mouse, Rat
Specificity	Recognizes endogenous levels of ACOX1 protein.

<b>Form</b>	Liquid
<b>Purification</b>	Immunogen affinity chromatography
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunoprecipitation(1:10-1:50) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
<b>Storage Instruction</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of Raw264.7 (A), mouse liver (B) whole cell lysates with ACOX1 recombinant monoclonal antibody (Cat # RAB02463).

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent analysis of HeLa cells with ACOX1 recombinant monoclonal antibody (Cat # RAB02463). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

- Immunoprecipitation

## Gene Info — ACOX1

Entrez GeneID [51](#)

Protein Accession# [Q15067](#)

Gene Name	ACOX1
Gene Alias	ACOX, MGC1198, PALMCOX, SCOX
Gene Description	acyl-Coenzyme A oxidase 1, palmitoyl
Omim ID	<a href="#">264470 609751</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The protein encoded by this gene is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It donates electrons directly to molecular oxygen, thereby producing hydrogen peroxide. Defects in this gene result in pseudoneonatal adrenoleukodystrophy, a disease that is characterized by accumulation of very long chain fatty acids. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]</p>
Other Designations	acyl-CoA oxidase, straight-chain peroxisomal fatty acyl-CoA oxidase

## Pathway

- [alpha-Linolenic acid metabolism](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of unsaturated fatty acids](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)