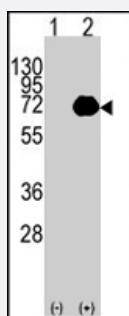


# ACOX1 polyclonal antibody

Catalog # PAB4368

Size 400 uL

## Applications



### Western Blot (Transfected lysate)

Western blot analysis of ACOX1 (arrow) using rabbit ACOX1 polyclonal antibody (Cat # PAB4368). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ACOX1 gene (Lane 2) (Origene Technologies).

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of ACOX1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ACOX1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Recommend Usage</b>	ELISA (1:1000) Western Blot (1:50-100) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western blot analysis of ACOX1 (arrow) using rabbit ACOX1 polyclonal antibody (Cat # PAB4368). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ACOX1 gene (Lane 2) (Origene Technologies).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ACOX1

Entrez GeneID [51](#)

Protein Accession# [NP\\_009223:Q15067](#)

Gene Name ACOX1

Gene Alias ACOX, MGC1198, PALMCOX, SCOX

Gene Description acyl-Coenzyme A oxidase 1, palmitoyl

Omim ID [264470 609751](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** acyl-CoA oxidase, straight-chain|peroxisomal fatty acyl-CoA oxidase

## Publication Reference

- [Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.](#)

Strausberg RL, Feingold EA, Grouse LH, Derge JG, Klausner RD, Collins FS, Wagner L, Shenmen CM, Schuler GD, Altshul SF, Zeeberg B, Buetow KH, Schaefer CF, Bhat NK, Hopkins RF, Jordan H, Moore T, Max SI, Wang J, Hsieh F, Diatchenko L, Marusina K, Farmer AA, Rubin GM, Hong L, Stapleton M, Soares MB, Bonaldo MF, Casavant TL, Scheetz TE, Brownstein MJ, Usdin TB, Toshiyuki S, Caminci P, Prange C, Raha SS, Loquellano NA, Peters GJ, Abramson RD, Mullahy SJ, Bosak SA, McEwan PJ, McKernan KJ, Malek JA,

PNAS 2002 Dec; 99(26):16899.

- [Overexpression and characterization of the human peroxisomal acyl-CoA oxidase in insect cells.](#)

Chu R, Varanasi U, Chu S, Lin Y, Usuda N, Rao MS, Reddy JK.

The Journal of Biological Chemistry 1995 Mar; 270(9):4908.

Application: IEM, WB-Re, WB-Tr, Insect, Recombinant proteins, Sf9 cells

- [Molecular cloning and functional expression of a human peroxisomal acyl-coenzyme A oxidase.](#)

Aoyama T, Tsushima K, Souri M, Kamijo T, Suzuki Y, Shimozawa N, Orii T, Hashimoto T.

Biochemical and Biophysical Research Communications 1994 Feb; 198(3):1113.

Application: WB-Tr, Human, Human skin fibroblasts

## Pathway

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