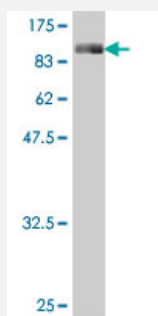


ACOX1 polyclonal antibody (A01)

Catalog # H00000051-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (98.71 KDa) .

Specification

Product Description

Mouse polyclonal antibody raised against a full-length recombinant ACOX1.

Immunogen

ACOX1 (AAH10425, 1 a.a. ~ 660 a.a) full-length recombinant protein with GST tag.

Sequence

MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQRYEVAVRK
SAIMVKKMLEFGIADPDEIMWFKNFVHRGRPEPLDLHLMFLPTLLHQATAEQQERFFMPAWN
EIIGTYAQTEMGHGHRLRGLETIATYDPETQEFILNSPTVTSIKWWPGGLGKTSNHAVLAQLITGKC
YGLHAFIVPIREIGTHKPLPGITVGDIGPKFGYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVK
PLSNKLTYGTMVFVRSFLVGEEAARLSKACTAIRYSAVRHQSEMKGPEPEPQILDFQTQQYKLF
LLATAYAFQFVGAYMKETYHRINEGIGQGDLSELPELHALTAGLKFTSWTANTGIEACRMACGGH
GYSHCSGLPNIVNFTPSCTFEGENTVMMLQTARFLMKSYDQVHSGKLVCGMVSYLNDLPSQRIQ
PQQVAVWPTMVDINSPELSTEAYKLRAARLVEIAAKNLQKEVIHRKSKEVAWNLTVDLVRASEA
HCHYVVVKLFSEKLLKIQDKAIQAVLRSLCLLYSLYGISQNAAGDFLQGSIMTEPQITQVNQRVKELLT
LIRSDAVALVDAFDFQDVTLSVGLGRYDGNVYENLFEWAKNSPLNKAEVHESYKHLKSLQSKL

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence

Mouse (88); Rat (85)

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (98.71 KDa) .

Storage Buffer

50 % glycerol

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ACOX1

Entrez GeneID [51](#)**GeneBank Accession#** [BC010425](#)**Protein Accession#** [AAH10425](#)**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

- [Diesel and biodiesels induce hepatic palmitoyl-CoA oxidase enzymatic activity through different molecular mechanisms in rats.](#)

Pelletier G, Rigden M, Poon R.

Journal of Biochemical and Molecular Toxicology 2012 Jun; 26(6):235.

Application: WB, Rat, Rat liver homogenates

- [Contribution of Peroxisome-specific Isoform of Lon Protease in Sorting PTS1 Proteins to Peroxisomes.](#)

Omi S, Nakata R, Okamura-Ikeda K, Konishi H, Taniguchi H.

Journal of Biochemistry 2008 Feb; 143(5):649.

Application: WB, Human, HeLa, HEK 293 cells

Pathway

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