

Datasheet

ACOX1 polyclonal antibody

Catalog Number: PAB4367

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of ACOX1.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ACOX1.

Host: Rabbit

Reactivity: Human, Mouse

Applications: ELISA, WB-Ti

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Purification: Protein G purification

Recommend Usage: ELISA (1:1000)

Western Blot (1:1000)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 51

Gene Symbol: ACOX1

Gene Alias: ACOX, MGC1198, PALMCOX, SCOX

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]

References:

1. Comparative Analysis of Proteome and Transcriptome Variation in Mouse. Ghazalpour A, Bennett B, Petyuk VA, Orozco L, Hagopian R, Mungrue IN, Farber CR, Sinsheimer J, Kang HM, Furlotte N, Park CC, Wen PZ, Brewer H, Weitz K, Camp DG 2nd, Pan C, Yordanova R, Neuhaus I, Tilford C, Siemers N, Gargalovic P, Eskin E, Kirchgesner T, Smith DJ, Smith RD, Lusk AJ. PLoS Genet. 2011 Jun;7(6):e1001393. Epub 2011 Jun 9.
2. 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, Altschul 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, Ustin TB, Toshiyuki S, Carninci P, Prange C, Raha SS, Loquellano NA, Peters GJ, Abramson RD, Mullahy SJ, Bosak SA, McEwan PJ, McKernan KJ, Malek JA, Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. Epub 2002 Dec 11.
3. 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. J Biol Chem. 1995 Mar 3;270(9):4908-15.