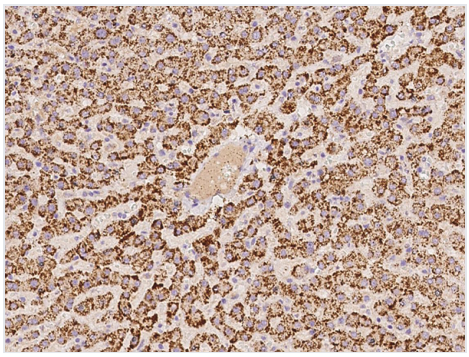
ACOX1 Antibody – Rabbit Polyclonal

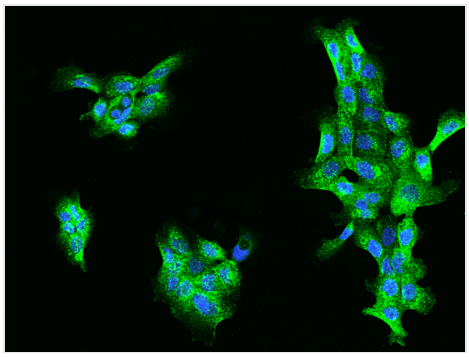
PRODUCT OVERVIEW

Product Name	ACOX1, Polyclonal Antibody
Full Product Name	Anti-ACOX1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-ACOX1 antibody
Product Synonym Names	ACOX1 Antibody, Rabbit PAb, Antigen Affinity Purified; acyl-CoA oxidase 1, palmitoyl; Anti-ACOX Antibody; Anti-PALMCOX Antibody; Anti-SCOX Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human ACOX1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.
Immunogen	E Coli-derived Human ACOX1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human ACOX1 fragment, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-ACOX1 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-ACOX1 antibody	IHC-P: 1:50-1:200 ICC/IF: 1:100-1:500
Related Product Information for anti-ACOX1 antibody	Peroxisomal acyl-coenzyme A oxidase 1(ACOX1 or AOX) is the first enzyme of the fatty acid beta-oxidation pathway and belongs to the Acyl-CoA oxidase family. Human liver peroxisomes contain two acyl-CoA oxidases, namely, palmitoyl-CoA oxidase (ACOX1/AOX) and a branched chain acyl-CoA oxidase. The palmitoyl-CoA oxidase (ACOX1/AOX) oxidizes the CoA esters of straight chain fatty acids and prostaglandins and donates electrons directly to molecular oxygen, thereby producing H2O2. Human ACOX1/AOX is a protein of 661-amino acids, including the carboxyl-terminal sequence(Ser-Lys-Leu) known as a minimal peroxisome-targeting signal. Human ACOX1/AOX, the first and rate-limiting enzyme of the peroxisomal beta-oxidation pathway, has two isoforms including ACOX1a and ACOX1b, transcribed from a single gene. The human ACOX1b isoform is more effective than the ACOX1a isoform in reversing the Acox1 null phenotype in the mouse partly because of the Substrate utilization differences.
Product References and Citations for anti-ACOX1 antibody	Vluggens A, et al. (2010) Functional significance of the two ACOX1 isoforms and their crosstalks with PPAR alpha and RXR alpha. Laboratory Investigation. 90: 696-708.Chu R, et al. (1995) Overexpression and characterization of the human peroxisomal acyl-CoA oxidase in insect cells. J Biol Chem. 270 (9): 4908-15.Aoyama T, et al. (1994) Molecular cloning and functional expression of a human peroxisomal acyl-coenzyme A oxidase. Biochem Biophys Res Commun. 198 (3): 1113-8.
Other Notes	Small volumes of anti-ACOX1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ACOX1 purchase	MBS8109470 is an antibody targeting ACOX1. Also known as Anti-ACOX1 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ACOX1 antibody
Immunochemical staining of human ACOX1 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



Immunofluorescence (IF) of anti-ACOX1 antibody
Immunofluorescence staining of ACOX1 in A431 cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human ACOX1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACOX1. It may not necessarily be applicable to this product.

Protein Family	Peroxisomal acyl-coenzyme A oxidase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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