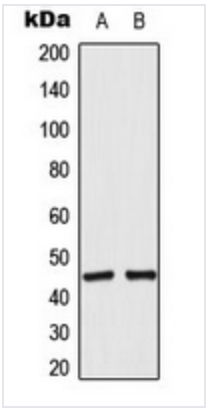
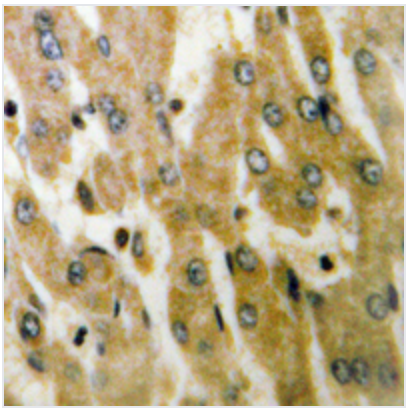
ACOT4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

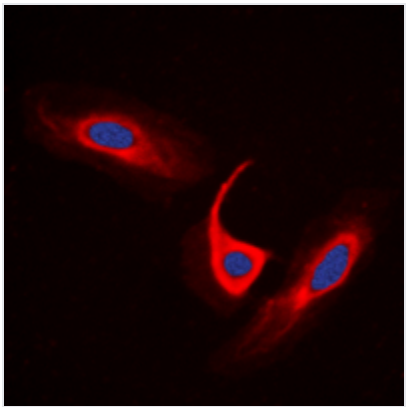
Product Name	ACOT4, Polyclonal Antibody
Full Product Name	Rabbit anti-ACOT4 Antibody
Product Gene Name	anti-ACOT4 antibody
Product Synonym Names	PTE2B; PTEIB; Acyl-coenzyme A thioesterase 4; Acyl-CoA thioesterase 4; PTE-2b; Peroxisomal acyl coenzyme A thioester hydrolase Ib; Peroxisomal long-chain acyl-CoA thioesterase Ib; PTE-Ib
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	46,327 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (74058410..74062470). Location: 14q24.3
OMIM	614314
3D Structure	ModBase 3D Structure for Q8N9L9
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ACOT4. The exact sequence is proprietary.
Product Categories/Family for anti-ACOT4 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-ACOT4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-ACOT4 antibody	WB: 1:500-1:1000 IHC: 1:100-1:200 IF:IC: 1:100-1:500
Related Product Information for anti-ACOT4 antibody	MBS4506740 is an antibody targeting ACOT4. Also known as Rabbit anti-ACOT4 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-ACOT4 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.



Western Blot (WB) of anti-ACOT4 antibody
Western blot analysis of ACOT4 expression in RT4 (A), A549 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-ACOT4 antibody
Immunohistochemical analysis of ACOT4 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-ACOT4 antibody
Immunofluorescent analysis of ACOT4 staining in A549 cells. 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 DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACOT4. It may not necessarily be applicable to this product.

NCBI GI #	187761341
NCBI GeneID	122970
NCBI Accession #	NP_689544.3
UniProt Primary Accession #	Q8N9L9
UniProt Secondary Accession #	Q17RF4; Q5BKT6; Q86TX0; Q86TX1; Q96N88
UniProt Related Accession #	Q8N9L9
GenBank Nucleotide #	NM_152331.3
NCBI Official Full Name	acyl-coenzyme A thioesterase 4
NCBI Official Synonym Full Names	acyl-CoA thioesterase 4
NCBI Official Symbol	ACOT4

NCBI Official Synonym Symbols	PTE1B; PTE2B; PTE-Ib
UniProt Protein Name	Acyl-coenzyme A thioesterase 4
UniProt Synonym Protein Names	PTE-2b; Peroxisomal acyl coenzyme A thioester hydrolase Ib; Peroxisomal long-chain acyl-CoA thioesterase Ib
Protein Family	Acyl-coenzyme A thioesterase
UniProt Gene Name	ACOT4
UniProt Synonym Gene Names	PTE2B; PTEIB; Acyl-CoA thioesterase 4; PTE-Ib
UniProt Entry Name	ACOT4_HUMAN
NCBI Protein Information	acyl-coenzyme A thioesterase 4; PTE-2b; peroxisomal acyl-CoA thioesterase 2B; peroxisomal long-chain acyl-CoA thioesterase Ib; peroxisomal acyl coenzyme A thioester hydrolase Ib
UniProt Comments for ACOT4	ACOT4: Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. Succinyl-CoA thioesterase that also hydrolyzes long chain saturated and unsaturated monocarboxylic acyl-CoAs. Belongs to the C/M/P thioester hydrolase family. Protein type: EC 3.1.2.2; Lipid Metabolism - unsaturated fatty acid biosynthesis; Hydrolase Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: peroxisome Molecular Function: acyl-CoA hydrolase activity; succinyl-CoA hydrolase activity; palmitoyl-CoA hydrolase activity; receptor binding Biological Process: dicarboxylic acid metabolic process; acyl-CoA metabolic process; short-chain fatty acid metabolic process; succinyl-CoA metabolic process; very-long-chain fatty acid metabolic process; saturated monocarboxylic acid metabolic process; long-chain fatty acid metabolic process; unsaturated monocarboxylic acid metabolic process; dicarboxylic acid catabolic process; butyrate metabolic process
Research Articles on ACOT4	**1.** ACOT4 and ACOT8 are responsible for the termination of beta-oxidation of dicarboxylic acids of medium-chain length with the concomitant release of the corresponding free acids
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/acot4/4506740