

**Goat Anti-ACOX2 (Human) Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1019a****Specification**

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**Goat Anti-ACOX2 (Human) Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q99424</a>
Other Accession	<a href="#">NP_003491</a> , <a href="#">8309</a>
Reactivity	Human
Predicted	Rabbit
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	76827

**Goat Anti-ACOX2 (Human) Antibody - Additional Information****Gene ID** 8309**Other Names**

Peroxisomal acyl-coenzyme A oxidase 2, 1.17.99.3, 3-alpha, 7-alpha, 12-alpha-trihydroxy-5-beta-cholestanoyl-CoA 24-hydroxylase, 3-alpha, 7-alpha, 12-alpha-trihydroxy-5-beta-cholestanoyl-CoA oxidase, Trihydroxycoprostanoyl-CoA oxidase, THCA-CoA oxidase, THCCox, ACOX2

**Dilution**

WB~~1:1000  
E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-ACOX2 (Human) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-ACOX2 (Human) Antibody - Protein Information****Name** ACOX2 ([HGNC:120](#))

**Function**

Oxidizes the CoA esters of the bile acid intermediates di- and tri-hydroxycholestanoic acids (PubMed:<a href="http://www.uniprot.org/citations/27884763" target="\_blank">27884763</a>). Capable of oxidizing short as well as long chain 2-methyl branched fatty acids (By similarity).

**Cellular Location**

Peroxisome

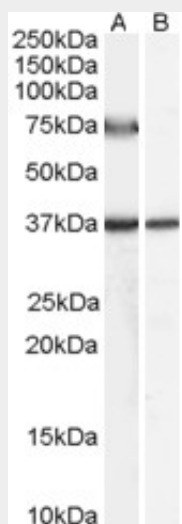
**Tissue Location**

Present in all tissues tested: heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Most abundant in heart, liver and kidney.

**Goat Anti-ACOX2 (Human) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-ACOX2 (Human) Antibody - Images**

AF1019a (0.5 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-ACOX2 (Human) Antibody - Background**

The product of this gene belongs to the acyl-CoA oxidase family. It encodes the branched-chain acyl-CoA oxidase which is involved in the degradation of long branched fatty acids and bile acid intermediates in peroxisomes. Deficiency of this enzyme results in the accumulation of branched fatty acids and bile acid intermediates, and may lead to Zellweger syndrome, severe mental retardation, and death in children.

## **Goat Anti-ACOX2 (Human) Antibody - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

Assignment of the human peroxisomal branched-chain acyl-CoA oxidase gene to chromosome 3p21.1-p14.2 by rodent/human somatic cell hybridization. Moghrabi NN, et al. Biochem Biophys Res Commun, 1997 Feb 24. PMID 9070889.

Mammalian peroxisomal acyl-CoA oxidases. III. Molecular characterization of human branched chain fatty acyl-CoA oxidase. Baumgart E, et al. Ann N Y Acad Sci, 1996 Dec 27. PMID 8993592.