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Goat Anti-ACOX2 (Human) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1019a

Specification

Goat Anti-ACOX2 (Human) Antibody - Product Information

Application	**WB**
Primary Accession	Q99424
Other Accession	NP_003491, 8309
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

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:27884763). Capable of oxidizing short as well as long chain 2-methyl branched fatty acids (By similarity).

Cellular Location
Peroxisome

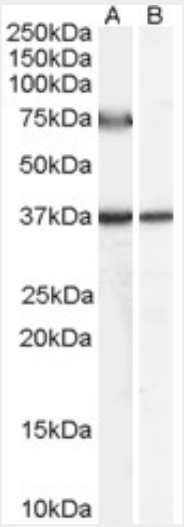
Tissue Location
Present in all tissues tested: heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Most abundant in heart, liver and kidney.

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 Cytomety
- 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

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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.
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