

**ACOX2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16717a**

### Specification

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#### ACOX2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">O99424</a>
Other Accession	<a href="#">NP_003491.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	76827
Antigen Region	1-30

#### ACOX2 Antibody (N-term) - Additional Information

Gene ID 8309

##### Other Names

Peroxisomal acyl-coenzyme A oxidase 2, 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

##### Target/Specificity

This ACOX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ACOX2.

##### Dilution

WB~~1:1000

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

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

##### Precautions

ACOX2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### ACOX2 Antibody (N-term) - Protein Information

Name ACOX2 ([HGNC:120](#))

**Function** Oxidizes the CoA esters of the bile acid intermediates di- and tri-hydroxycholestanic acids (PubMed:[27884763](#)). Capable of oxidizing short as well as long chain 2-methyl branched fatty acids (By similarity).

**Cellular Location**

Peroxisome

**Tissue Location**

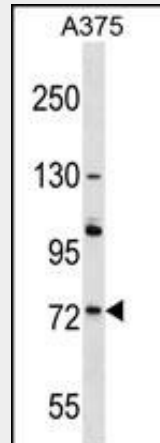
Present in all tissues tested: heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Most abundant in heart, liver and kidney.

**ACOX2 Antibody (N-term) - 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](#)

**ACOX2 Antibody (N-term) - Images**



ACOX2 Antibody (N-term) (Cat. #AP16717a) western blot analysis in A375 cell line lysates (35ug/lane). This demonstrates the ACOX2 antibody detected the ACOX2 protein (arrow).

**ACOX2 Antibody (N-term) - 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.

**ACOX2 Antibody (N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Rikova, K., et al. Cell 131(6):1190-1203(2007)  
Wanders, R.J., et al. Annu. Rev. Biochem. 75, 295-332 (2006) :  
Moghrabi, N.N., et al. Biochem. Biophys. Res. Commun. 231(3):767-769(1997)  
Baumgart, E., et al. Ann. N. Y. Acad. Sci. 804, 678-679 (1996) :