

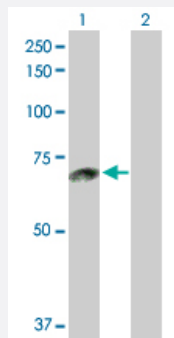
MaxPab®

# ACOX1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000051-B01P

Size 50 ug

## Applications



### Western Blot (Transfected lysate)

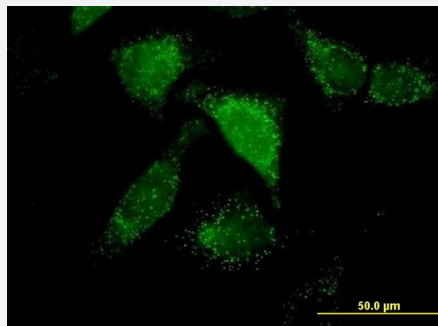
Western Blot analysis of ACOX1 expression in transfected 293T cell line ([H00000051-T01](#)) by ACOX1 MaxPab polyclonal antibody.

Lane 1: ACOX1 transfected lysate(72.6 KDa).

Lane 2: Non-transfected lysate.

### Immunofluorescence

Immunofluorescence of purified MaxPab antibody to ACOX1 on HeLa cell. [antibody concentration 10 ug/ml]



## Specification

### Product Description

Mouse polyclonal antibody raised against a full-length human ACOX1 protein.

### Immunogen

ACOX1 (AAH10425.1, 1 a.a. ~ 660 a.a) full-length human protein.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence                      | MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQRYEVAVRK<br>SAIMVKKMREFGIADPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLHQATAEQQERFFMPAWN<br>EIIGTYAQTEMGHGHRLRGLETIATYDPETQEFILNSPTVTSIKWWPGGLGKTSNHAVLAQLITGKGC<br>YGLHAFIVPIREIGHKPLPGITVGDIGPKFGYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVK<br>PLSNKLTYGTMVFVRSFLVGEAARALSKACTIAIRYSAVRHQSEMKPGEPEPQLDFQTQQYKLF<br>LLATAYAFQFVGAYMKETYHRINEGIGQGDLSELPELHALTAGLKAFTSWTANTGIEACRMACGGH<br>GYSHCSGLPNIVNFTPSCTFEGENTVMMLQTARFLMKS YDQVHSGKLVCGMVSYLNDLPSQRIQ<br>PQQVAVWPTMVDINSPELSTEAYKLRAARLVEIAAKNLQKEVIHRKSKEVAWNLTSDLVRASEA<br>HCHYVVVKLFSEKLLKIQDKAIQAVLRSLCLLYSLYGISQNAGDFLQGSIMTEPQITQVNQRVKELLT<br>LIRSDAVALVDAFDFQDVTLGSVLGRYDGNVYENLFEWAKNSPLNKAEVHESYKHLKSLQSKL |
| Host                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Interspecies Antigen Sequence | Mouse (88); Rat (85)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Quality Control Testing       | Antibody reactive against mammalian transfected lysate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage Buffer                | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Applications

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[Protocol Download](#)

### Immunofluorescence

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## Gene Info — ACOX1

|                     |                            |
|---------------------|----------------------------|
| Entrez GeneID       | <a href="#">51</a>         |
| GeneBank Accession# | <a href="#">BC010425.1</a> |
| Protein Accession#  | <a href="#">AAH10425.1</a> |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name          | ACOX1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Alias         | ACOX, MGC1198, PALMCOX, SCOX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Description   | acyl-Coenzyme A oxidase 1, palmitoyl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Omim ID            | <a href="#">264470 609751</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Summary       | <p>The protein encoded by this gene is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It donates electrons directly to molecular oxygen, thereby producing hydrogen peroxide. Defects in this gene result in pseudoneonatal adrenoleukodystrophy, a disease that is characterized by accumulation of very long chain fatty acids. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]</p> |
| Other Designations | acyl-CoA oxidase, straight-chain peroxisomal fatty acyl-CoA oxidase                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Pathway

- [alpha-Linolenic acid metabolism](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of unsaturated fatty acids](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)