



## Anti-ACOX2 (aa 582-681) polyclonal antibody (DPAB-DC3400)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

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| <b>Antigen Description</b> | 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. |
| <b>Immunogen</b>           | ACOX2 (NP_003491, 582 a.a. ~ 681 a.a) partial recombinant protein with GST tag. The sequence is<br><br>HGILTNSGDFLHDAFLSGAQVDMARTAYLDLLRLIRKDAILLTDAFDFTDQCLNSALGCY<br>DGNVYERLFQWAQKSPTNTQENPAYEEYIRPLLQSWRSKL  |
| <b>Source/Host</b>         | Mouse  |
| <b>Species Reactivity</b>  | Human  |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | WB (Recombinant protein), ELISA,   |
| <b>Size</b>                | 50 µl  |
| <b>Buffer</b>              | 50 % glycerol  |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |

### GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">ACOX2 acyl-CoA oxidase 2, branched chain [ Homo sapiens (human) ]</a>  |
| <b>Official Symbol</b>     | ACOX2  |
| <b>Synonyms</b>            | ACOX2; acyl-CoA oxidase 2, branched chain; BCOX; BRCOX; THCCox; BRCACOX; peroxisomal acyl-coenzyme A oxidase 2; THCA-CoA oxidase; trihydroxycoprostanoyl-CoA oxidase; acyl-Coenzyme A oxidase 2, branched chain; peroxisomal branched chain acyl-CoA oxidase; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanyl-CoA oxidase; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanyl-CoA 24-hydroxylase; |
| <b>Entrez Gene ID</b>      | <a href="#">8309</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_003491</a>  |
| <b>UniProt ID</b>          | <a href="#">Q99424</a>   |
| <b>Chromosome Location</b> | 3p14.3   |
| <b>Pathway</b>             | Beta-oxidation of pristanoyl-CoA; Bile acid biosynthesis, cholesterol => Bile acid biosynthesis, cholesterol => Metabolism   |
| <b>Function</b>            | 3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanyl-CoA 24-hydroxylase activity; acyl-CoA dehydrogenase activity; acyl-CoA oxidase activity; flavin adenine dinucleotide binding  |

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