



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

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

GENE INFORMATION

Gene Name	ACOX2 acyl-CoA oxidase 2, branched chain [Homo sapiens (human)]
Official Symbol	ACOX2
Synonyms	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-cholestanoyl-CoA oxidase; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA 24-hydroxylase;
Entrez Gene ID	8309
Protein Refseq	NP_003491
UniProt ID	Q99424
Chromosome Location	3p14.3
Pathway	Beta-oxidation of pristanoyl-CoA; Bile acid biosynthesis, cholesterol => Bile acid biosynthesis, cholesterol => Metabolism
Function	3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanoyl-CoA 24-hydroxylase activity; acyl-CoA dehydrogenase activity; acyl-CoA oxidase activity; flavin adenine dinucleotide binding