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ACOX2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ACOX2.
Catalog # AT1027a

Product Information

Application	WB, E
Primary Accession	Q99424
Other Accession	NM_003500
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1D1
Calculated MW	76827

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	ACOX2 (NP_003491, 582 a.a. ~ 681 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ACOX2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

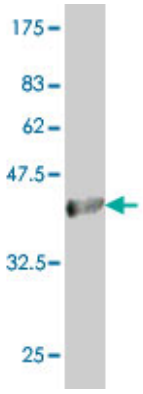
Background

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.

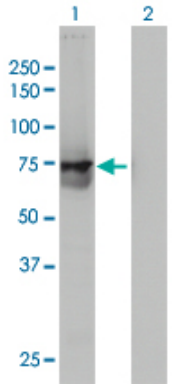
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.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.Mammalian peroxisomal acyl-CoA oxidases. III. Molecular characterization of human branched chain fatty acyl-CoA oxidase. Baumgart E, et al. Ann N Y Acad Sci, 1996 Dec 27. PMID 8993592.

Images

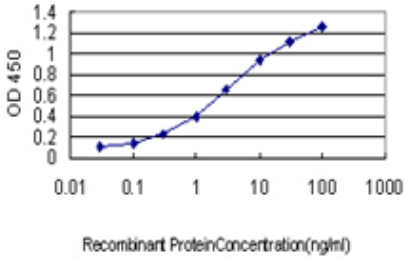


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of ACOX2 expression in transfected 293T cell line by ACOX2 monoclonal antibody (M01), clone 1D1.

Lane 1: ACOX2 transfected lysate(77 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ACOX2 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.