

产品名称: ABCD1 / ALD (12L9) Rabbit Monoclonal Antibody
产品货号: AMRe06414



产品概述 (Summary)

产品名称 (Production Name)	ABCD1 / ALD (12L9) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF, FC
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ABCD1
别名 (Alternative Names)	ABC42; Abcd1; ALD; Aldgh; ALDP; AMN;
基因 ID (Gene ID)	215.0
蛋白 ID (SwissProt ID)	P33897.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:2000, ICC/IF 1:100-1:200, FC 1:20-1:50
蛋白分子量 (Molecular Weight)	83kDa

研究背景 (Background)

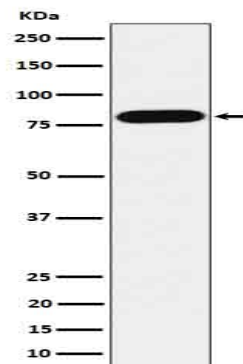
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Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity. ATP-dependent transporter of the ATP-binding cassette (ABC) family involved in the transport of very long chain fatty acid (VLCFA)- CoA from the cytosol to the peroxisome lumen (PubMed: [11248239](http://www.uniprot.org/citations/11248239)), PubMed: [15682271](http://www.uniprot.org/citations/15682271), PubMed: [16946495](http://www.uniprot.org/citations/16946495), PubMed: [18757502](http://www.uniprot.org/citations/18757502), PubMed: [21145416](http://www.uniprot.org/citations/21145416), PubMed: [23671276](http://www.uniprot.org/citations/23671276), PubMed: [29397936](http://www.uniprot.org/citations/29397936), PubMed: [33500543](http://www.uniprot.org/citations/33500543)). Coupled to the ATP- dependent transporter activity has also a fatty acyl-CoA thioesterase activity (ACOT) and hydrolyzes VLCFA-CoA into VLCFA prior their ATP- dependent transport into peroxisomes, the ACOT activity is essential during this transport process (PubMed: [33500543](http://www.uniprot.org/citations/33500543), PubMed: [29397936](http://www.uniprot.org/citations/29397936)). Thus, plays a role in regulation of VLCFAs and energy metabolism namely, in the degradation and biosynthesis of fatty acids by beta-oxidation, mitochondrial function and microsomal fatty acid elongation (PubMed: [23671276](http://www.uniprot.org/citations/23671276), PubMed: [21145416](http://www.uniprot.org/citations/21145416)). Involved in several processes; namely, controls the active myelination phase by negatively regulating the microsomal fatty acid elongation activity and may also play a role in axon and myelin maintenance. Controls also the cellular response to oxidative stress by regulating mitochondrial functions such as mitochondrial oxidative phosphorylation and depolarization. And finally controls the inflammatory response by positively regulating peroxisomal beta-oxidation of VLCFAs (By similarity).

研究领域 (Research Area)

ABC transporters;

图片 (Image Data)



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Western blot analysis of ABCD1 / ALD in HepG2 cell lysate.

注意事项 (Note)

For research use only .