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AMACR (C-terminus) Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52720

Product Information

Application	WB, ICC
Primary Accession	Q9UHK6
Reactivity	Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	42387

Additional Information

Gene ID	23600
Other Names	2 arylpropionyl CoA epimerase;2 methylacyl CoA racemase;2-methylacyl-CoA racemase;Alpha methylacyl CoA racemase;Alpha methylacyl Coenzyme A racemase;Alpha methylacyl-CoA racemase deficiency, included;Alpha-methylacyl-CoA racemase;Amacr;AMACR deficiency, included;AMACR_HUMAN;CBAS4;Da1-8;EC 5.1.99.4;Macr 1;Macr1;Methylacyl CoA racemase alpha;P504S;RACE;RM.
Dilution	WB~~1:1000 ICC~~1:100
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	AMACR
Function	Catalyzes the interconversion of (R)- and (S)-stereoisomers of alpha-methyl-branched-chain fatty acyl-CoA esters (PubMed:10655068, PubMed:11060359, PubMed:11893780, PubMed:7649182). Acts only on coenzyme A thioesters, not on free fatty acids, and accepts as substrates a wide range of alpha-methylacyl-CoAs, including pristanoyl- CoA, trihydroxycoprostanoyl-CoA (an intermediate in bile acid synthesis), and arylpropionic acids like the anti-inflammatory drug ibuprofen (2-(4-isobutylphenyl)propionic acid) but neither 3-methyl- branched nor linear-chain acyl-CoAs (PubMed:10655068, PubMed:11060359, PubMed:7649182).

Cellular Location Peroxisome. Mitochondrion

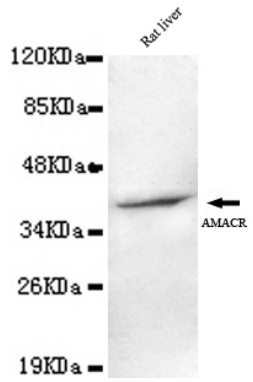
Background

Racemization of 2-methyl-branched fatty acid CoA esters. Responsible for the conversion of pristanoyl-CoA and C27-bile acyl-CoAs to their (S)-stereoisomers.

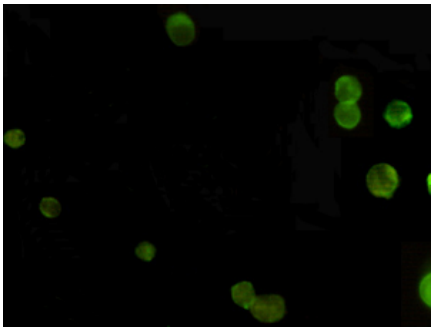
References

Amery L.,et al.J. Lipid Res. 41:1752-1759(2000).
Ferdinandusse S.,et al.Nat. Genet. 24:188-191(2000).
Mubiru J.N.,et al.Prostate 65:117-123(2005).
Albers C.,et al.Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases.
Ouyang B.,et al.Submitted (NOV-2008) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of AMACR(C-terminus) in Rat Liver lysates using AMACR(C-terminus) mouse mAb (1:1000 diluted).Predicted band size: 42KDa.Observed band size: 42KDa.



Immunocytochemistry staining of Jurkat cells fixed with -20℃ Ethanol and using anti-AMACR (C-terminus) mouse mAb (dilution 1:100).

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