

# AMACR (C-terminus) Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52720

## Product Information

Application	WB, ICC
Primary Accession	<a href="#">Q9UHK6</a>
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	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50% glycerol
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	AMACR
Function	Catalyzes the interconversion of (R)- and (S)-stereoisomers of alpha-methyl-branched-chain fatty acyl-CoA esters (PubMed: <a href="#">10655068</a> , PubMed: <a href="#">11060359</a> , PubMed: <a href="#">7649182</a> ). 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: <a href="#">10655068</a> , PubMed: <a href="#">11060359</a> , PubMed: <a href="#">7649182</a> ).
Cellular Location	Peroxisome. Mitochondrion

## Background

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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.

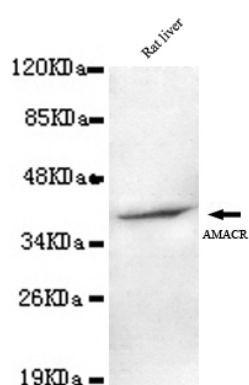
## References

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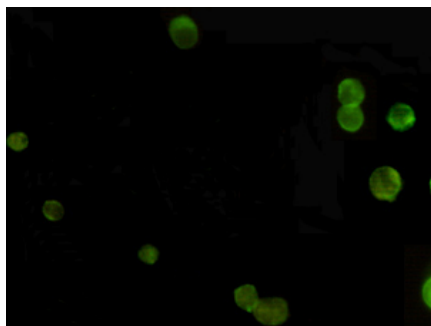
Amery L.,et al.J. Lipid Res. 41:1752-1759(2000).  
Ferdinandusse S.,et al.Nat. Genet. 24:188-191(2000).  
Mubiru J.N.,et al.Prostate 65:117-123(2005).  
Albers C.,et al.Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases.  
Ouyang B.,et al.Submitted (NOV-2008) to the EMBL/GenBank/DDBJ databases.

## Images

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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°C 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'.