

**AMACR (C-terminus) Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52720****Specification**

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**AMACR (C-terminus) Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, ICC                |
| Primary Accession | <a href="#">O9UHK6</a> |
| Reactivity        | Rat                    |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Isotype           | IgG1                   |
| Calculated MW     | 42 KDa                 |

**AMACR (C-terminus) Antibody - 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

**AMACR (C-terminus) Antibody - 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="http://www.uniprot.org/citations/10655068" target="\_blank">10655068</a>, PubMed:<a href="http://www.uniprot.org/citations/11060359" target="\_blank">11060359</a>, PubMed:<a href="http://www.uniprot.org/citations/7649182" target="\_blank">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="http://www.uniprot.org/citations/10655068" target="\_blank">10655068</a>, PubMed:<a href="http://www.uniprot.org/citations/11060359" target="\_blank">11060359</a>, PubMed:<a href="http://www.uniprot.org/citations/7649182" target="\_blank">7649182</a>).

#### Cellular Location

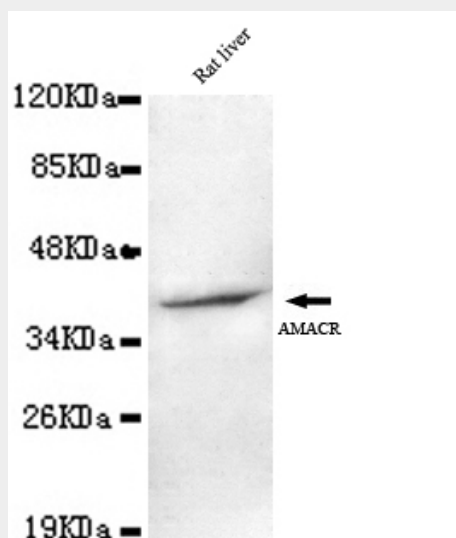
Peroxisome. Mitochondrion

#### AMACR (C-terminus) Antibody - Protocols

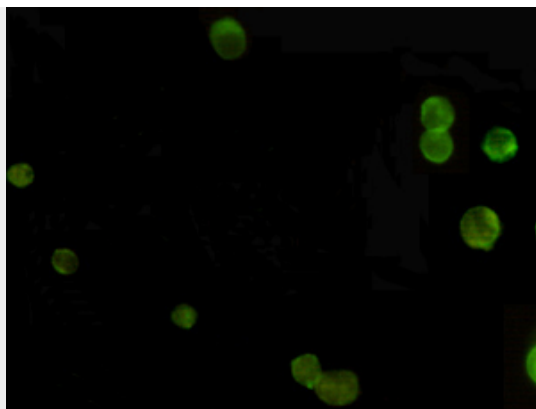
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### AMACR (C-terminus) Antibody - 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°C Ethanol and using anti-AMACR (C-terminus) mouse mAb (dilution 1:100).

#### **AMACR (C-terminus) Antibody - 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.

#### **AMACR (C-terminus) Antibody - 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.