

AMACR Antibody (clone 2A10F3)
Mouse Monoclonal Antibody
Catalog # ALS12834**Specification**

AMACR Antibody (clone 2A10F3) - Product Information

Application	IF, IHC
Primary Accession	O9UHK6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	42kDa KDa

AMACR Antibody (clone 2A10F3) - Additional Information

Gene ID 23600

Other Names

Alpha-methylacyl-CoA racemase, 5.1.99.4, 2-methylacyl-CoA racemase, AMACR

Target/Specificity

Purified truncated recombinant AMACR-His fusion protein expressed in E. Coli strain BL21 (DE3)

Precautions

AMACR Antibody (clone 2A10F3) is for research use only and not for use in diagnostic or therapeutic procedures.

AMACR Antibody (clone 2A10F3) - Protein Information

Name AMACR

Function

Catalyzes the interconversion of (R)- and (S)-stereoisomers of alpha-methyl-branched-chain fatty acyl-CoA esters (PubMed: [10655068](http://www.uniprot.org/citations/10655068), PubMed: [11060359](http://www.uniprot.org/citations/11060359), PubMed: [7649182](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/10655068), PubMed: [11060359](http://www.uniprot.org/citations/11060359), PubMed: [7649182](http://www.uniprot.org/citations/7649182)).

Cellular Location

Peroxisome. Mitochondrion

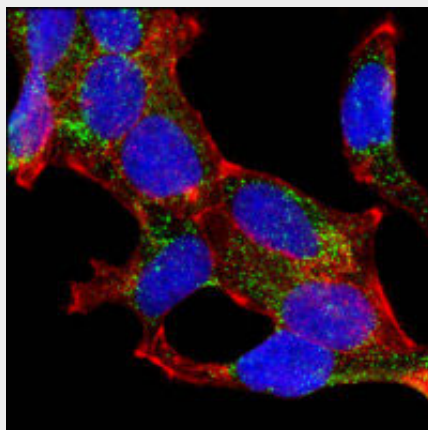
Volume
50 μ l

AMACR Antibody (clone 2A10F3) - Protocols

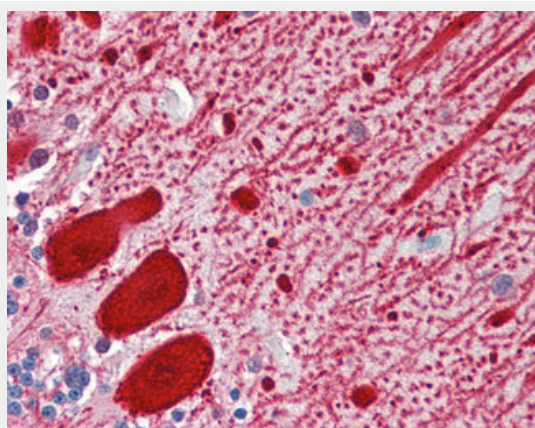
Provided below are standard protocols that you may find useful for product applications.

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

AMACR Antibody (clone 2A10F3) - Images



Confocal immunofluorescence of LNCaP cells using AMACR mouse monoclonal antibody (green).



Anti-AMACR antibody IHC of human brain, cerebellum.

AMACR Antibody (clone 2A10F3) - 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 Antibody (clone 2A10F3) - 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.