

**Anti-AMACR Picoband Antibody**  
Catalog # ABO12668**Specification**

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**Anti-AMACR Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9UHK6</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Alpha-methylacyl-CoA racemase(AMACR) detection. Tested with WB in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-AMACR Picoband Antibody - Additional Information**

**Gene ID** 23600

**Other Names**

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

**Calculated MW**

42387 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Peroxisome . Mitochondrion .

**Protein Name**

Alpha-methylacyl-CoA racemase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human AMACR (208-246aa RGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIK), different from the related mouse and rat sequences by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

Storage

**At -20°C for one year. After r° Constitution, at 4°C for one month. It° Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

## Anti-AMACR Picoband 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

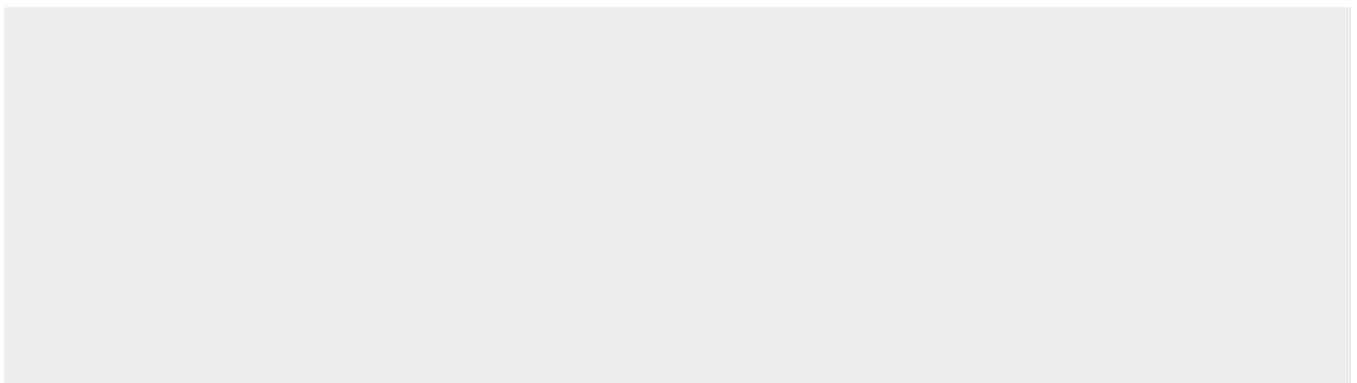
Peroxisome. Mitochondrion

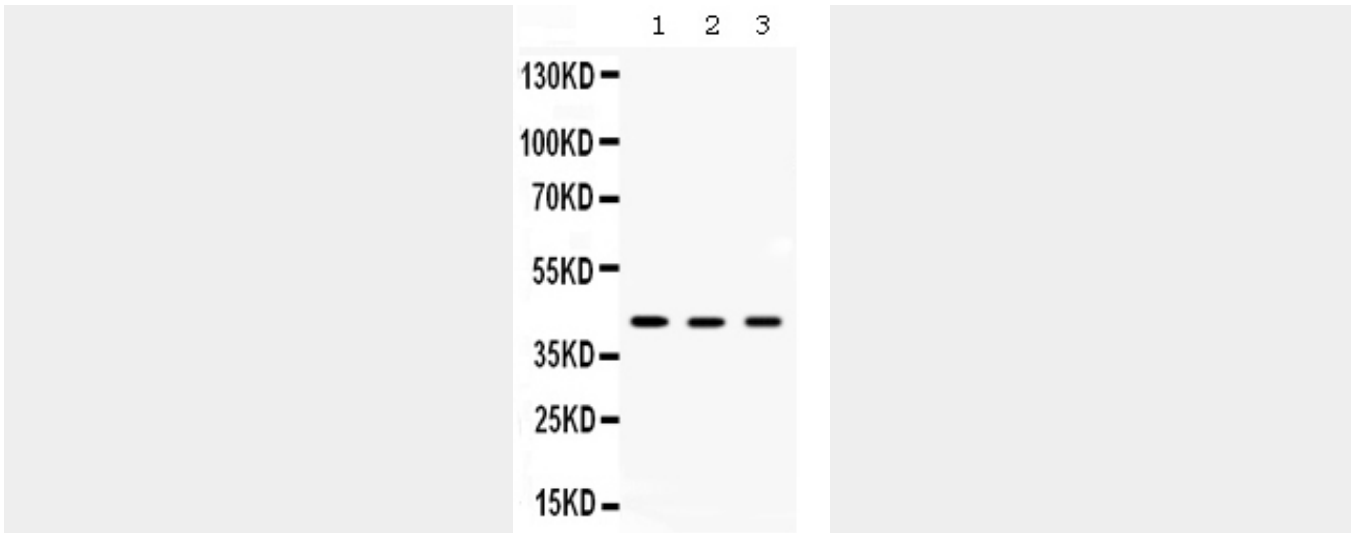
## Anti-AMACR Picoband Antibody - Protocols

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](#)

## Anti-AMACR Picoband Antibody - Images





Western blot analysis of AMACR expression in rat kidney extract (lane 1), rat liver extract (lane 2) and HEPG2 whole cell lysates (lane 3). AMACR at 42KD was detected using rabbit anti- AMACR Antigen Affinity purified polyclonal antibody (Catalog # ABO12668) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-AMACR Picoband Antibody - Background**

Alpha-methylacyl-CoA racemase (AMACR) is a mitochondrial and peroxisomal enzyme. It encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this locus localize to both mitochondria and peroxisomes. Mutations in this gene may be associated with adult-onset sensorimotor neuropathy, pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the upstream neighboring C1QTNF3 (C1q and tumor necrosis factor related protein 3) gene.