

**AMACR (aa312-326) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF4125a

### Specification

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#### AMACR (aa312-326) Antibody (internal region) - Product Information

Application	WB, IHC
Primary Accession	<a href="#">O9UHK6</a>
Other Accession	<a href="#">NP_055139.4</a> , <a href="#">NP_001161067.1</a> , <a href="#">23600</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	42387

#### AMACR (aa312-326) Antibody (internal region) - Additional Information

Gene ID 23600

#### Other Names

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

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

AMACR (aa312-326) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### AMACR (aa312-326) Antibody (internal region) - 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) target="\_blank">10655068</a>, PubMed: [11060359](http://www.uniprot.org/citations/11060359) target="\_blank">11060359</a>, PubMed: [7649182](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 (aa312-326) Antibody (internal region) - Protocols

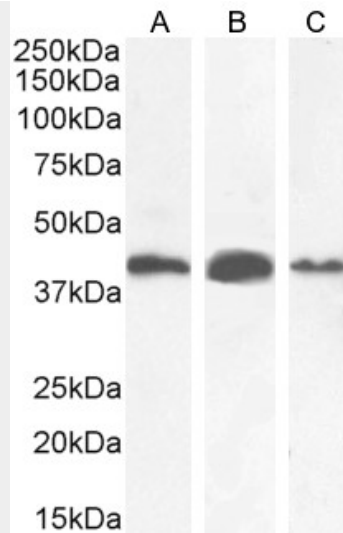
Provided below are standard protocols that you may find useful for product applications.

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

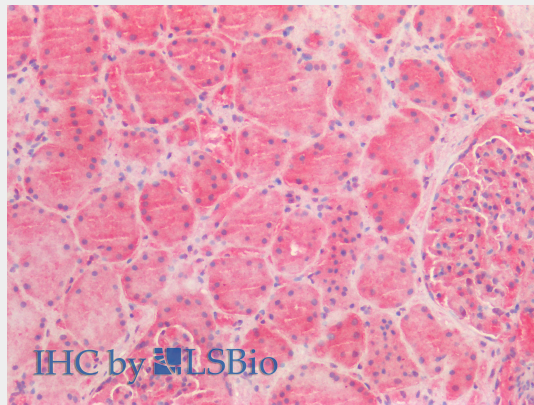
#### AMACR (aa312-326) Antibody (internal region) - Images



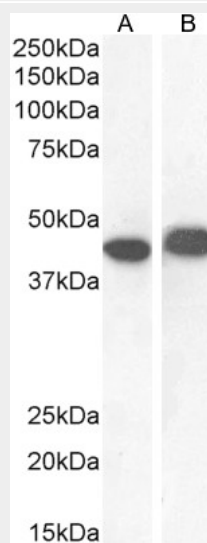
AF4125a (0.1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB12538 (0.03 $\mu$ g/ml) staining of Human Kidney (A), (0.1 $\mu$ g/ml) Liver (B) and (1 $\mu$ g/ml) Colorectal cancer (C) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB12539 (5 $\mu$ g/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB12539 (1 $\mu$ g/ml) staining of CaCo-2 (A) and (0.1 $\mu$ g/ml) LNCaP (B) cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.

**AMACR (aa312-326) Antibody (internal region) - Background**

This antibody is expected to recognize isoform 1 (NP\_055139.4) and isoform 3 (NP\_001161067.1).

**AMACR (aa312-326) Antibody (internal region) - References**

High-throughput screen identifies novel inhibitors of cancer biomarker a-methylacyl coenzyme A racemase (AMACR/P504S). Wilson BA, Wang H, Nacev BA, Mease RC, Liu JO, Pomper MG, Isaacs WB. Molecular cancer therapeutics 2011 May 10 (5): 825-38. PMID: 21441411