

## Product datasheet for **UM870107**

### AMACR Mouse Monoclonal Antibody [Clone ID: UMAB215]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB215
Applications:	10k-ChIP, IHC
Recommended Dilution:	IHC 1:100~800
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AMACR (NP_055139) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.2 kDa
Gene Name:	alpha-methylacyl-CoA racemase
Database Link:	<a href="#">NP_055139</a> <a href="#">Entrez Gene 23600 Human</a> <a href="#">Q9UHK6</a>

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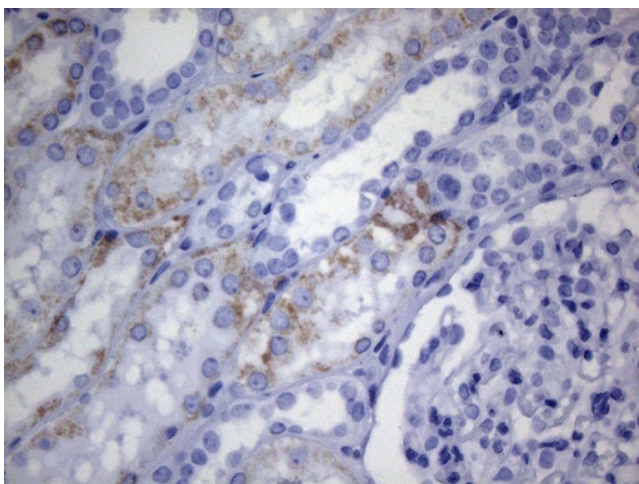
**Background:** This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this 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. [provided by RefSeq, Mar 2011]

**Synonyms:** AMACRD; CBAS4; RACE; RM

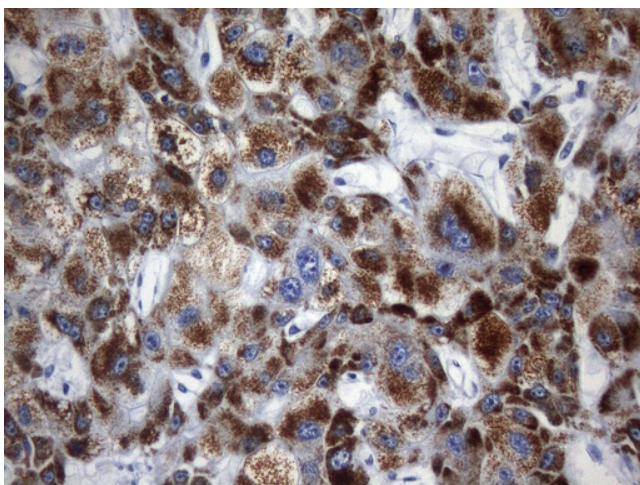
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Primary bile acid biosynthesis

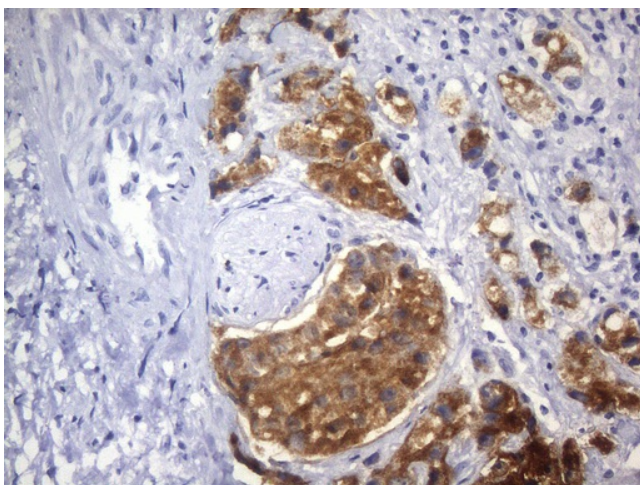
### Product images:



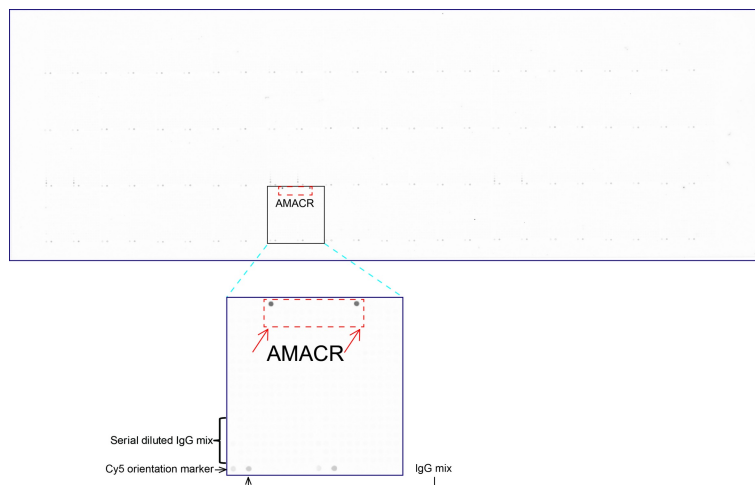
Immunohistochemical staining of paraffin-embedded human kidney tissue within the normal limits using anti-AMACR mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800107] was diluted 1:800 and detection was done with HRP secondary and DAB chromogen. Weak cytoplasmic and membraneous stain was seen in the tubule epithelial cells.



Immunohistochemical staining of paraffin-embedded carcinoma of human liver tissue using anti-AMACR mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800107] was diluted 1:800 and detection was done with HRP secondary and DAB chromogen. Strong cytoplasmic and membraneous stain was seen in tumor cells.



Immunohistochemical staining of paraffin-embedded carcinoma of human prostate tissue using anti-AMACR mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800107] was diluted 1:800 and detection was done with HRP secondary and DAB chromogen. Strong cytoplasmic and membraneous stain was seen in tumor cells.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-AMACR mouse monoclonal antibody ([UM800107]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification (1:100).