

## Product datasheet for **UM800012**

### AMACR Mouse Monoclonal Antibody [Clone ID: UMAB68]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB68
Applications:	IF, IHC
Recommended Dilution:	IHC 1:100
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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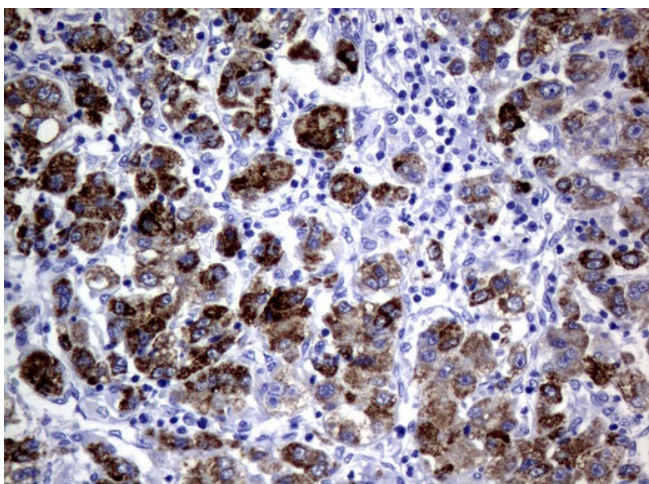
**Background:** This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this 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

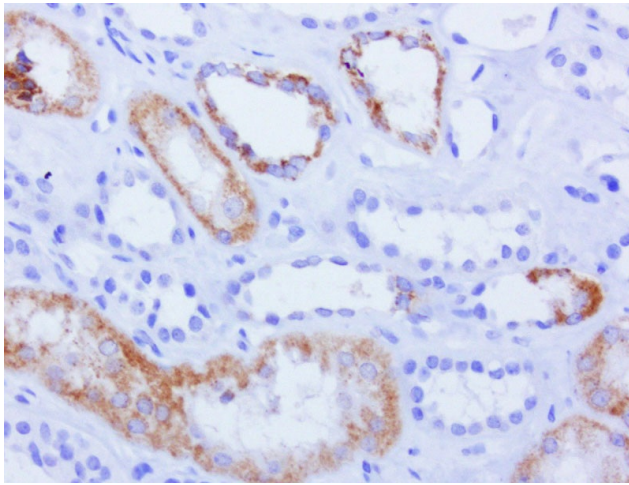
**Protein Families:** Druggable Genome

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

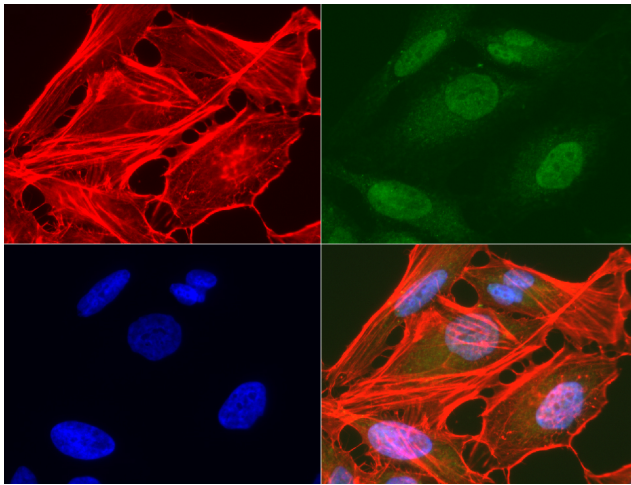
### Product images:



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-AMACR mouse monoclonal antibody. (UM800012; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded of human kidney using anti-AMACR clone UMAB68 mouse monoclonal antibody at 1:200 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. UM800012 requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows strong cytoplasmic staining in the kidney tubular cells.



Immunofluorescent staining of HeLa cells using anti-AMACR mouse monoclonal antibody (UM800012, green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).