

Product datasheet for **UM800106CF**

AMACR Mouse Monoclonal Antibody [Clone ID: UMAB214]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB214
Applications:	10k-ChIP, IHC
Recommended Dilution:	IHC 1:100~2400
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AMACR (NP_055139) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	NP_055139 Entrez Gene 23600 Human Q9UHK6



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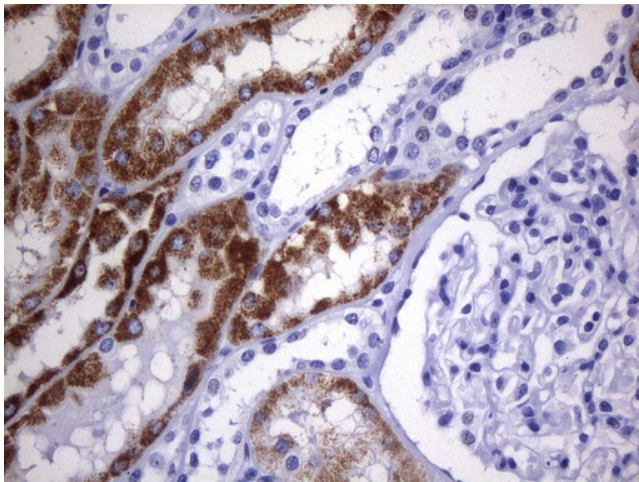
Background: This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this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

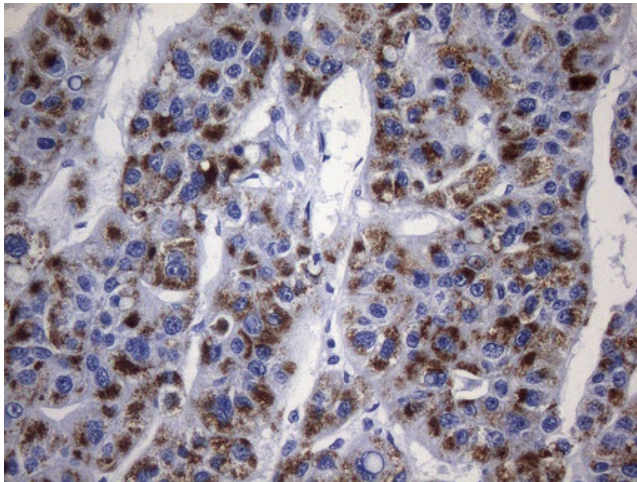
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Primary bile acid biosynthesis

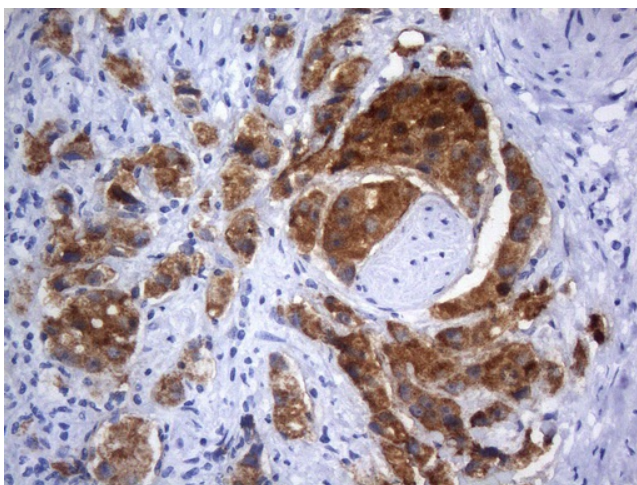
Product images:



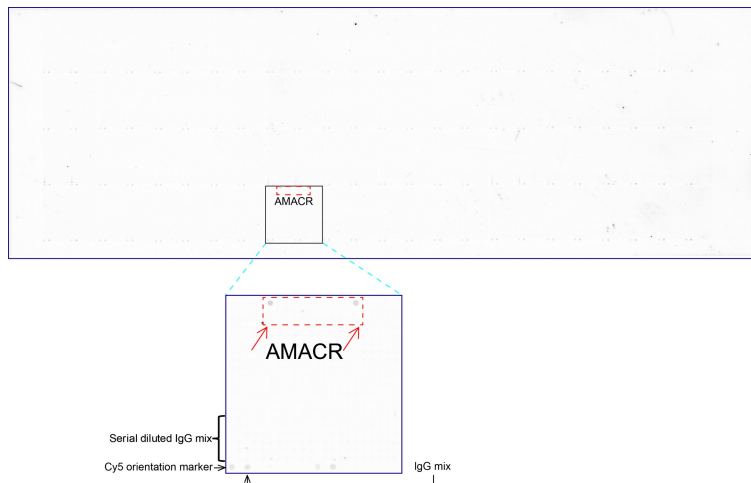
Immunohistochemical staining of paraffin-embedded human kidney tissue within the normal limits using anti-AMACR mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800106] was diluted 1:2400 and detection was done with HRP secondary and DAB chromogen. Strong cytoplasmic and membraneous stain was seen in >50% of the kidney tubules no stain was seen in glomeruli.



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. [UM800106] was diluted 1:2400 and detection was done with HRP secondary and DAB chromogen. Strong cytoplasmic and membranous stain was seen in >50% 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. [UM800106] was diluted 1:2400 and detection was done with HRP secondary and DAB chromogen. Strong cytoplasmic and membranous stain was seen in >75% of the tumor cells.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-AMACR mouse monoclonal antibody ([UM800106]). 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).