

## Product datasheet for **TA808448S**

### AMACR Mouse Monoclonal Antibody [Clone ID: OTI2E3]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI2E3  |
| Applications:           | IHC, WB   |
| Recommended Dilution:   | IHC 1:150   |
| 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:          | 1 mg/ml   |
| 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><br><a href="#">Entrez Gene 23600 Human</a><br><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:**

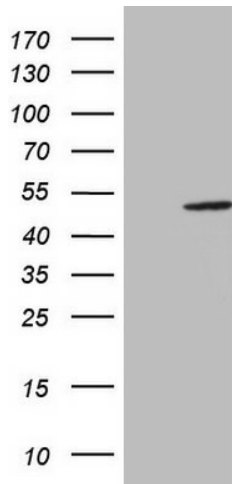
AMACRD; CBAS4; RACE; RM

**Protein Families:**

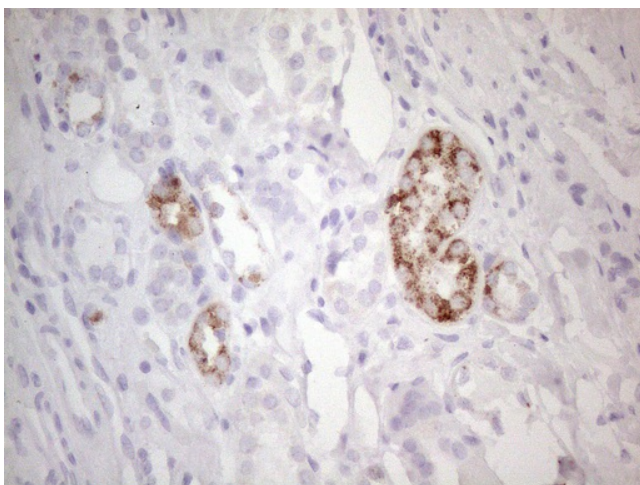
Druggable Genome

**Protein Pathways:**

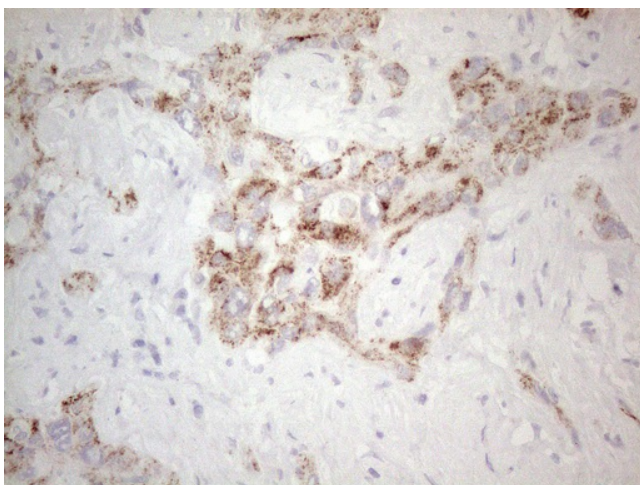
Metabolic pathways, Primary bile acid biosynthesis

**Product images:**

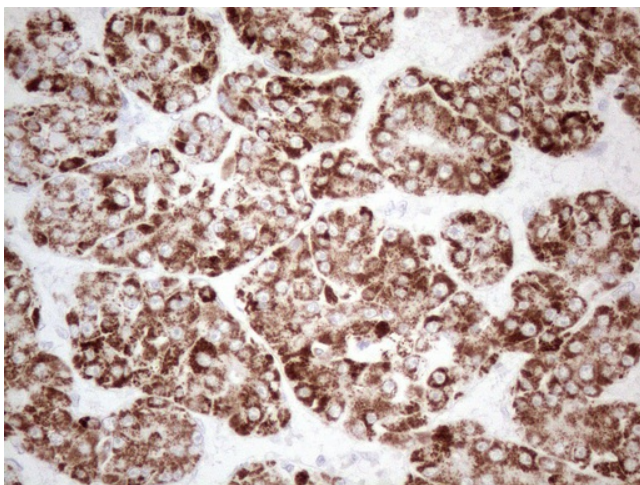
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AMACR ([RC213437], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AMACR. Positive lysates [LY402314] (100ug) and [LC402314] (20ug) can be purchased separately from OriGene.



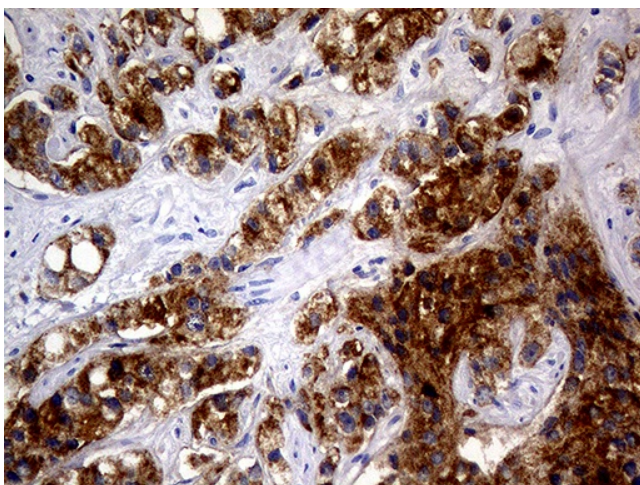
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-AMACR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808448]) (1:150)



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-AMACR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808448]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-AMACR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808448]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-AMACR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA808448]) (1:1000)