

AMACR Monoclonal Antibody(4A12)

Catalog No: YM3047

Reactivity: Human; Mouse; Rat

Applications: WB;IF;IHC

Target: AMACR

Fields: >>Primary bile acid biosynthesis;>>Metabolic pathways;>>Peroxisome

Gene Name: AMACR

Protein Name: Alpha-methylacyl-CoA racemase

Q9UHK6

O09174

Human Gene Id: 23600

Human Swiss Prot

Iuman Swiss Froi

No:

Mouse Gene Id: 17117

Mouse Swiss Prot

No:

Rat Swiss Prot No: P70473

Immunogen: Synthetic Peptide of AMACR

Specificity: The antibody detects endogenous AMCAR/P504S proteins.

Formulation : PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

50% Glycerol.

Source: Monoclonal, Mouse

Dilution: WB 1:1000 IHC 1:200 IF 1:200

Purification: The antibody was affinity-purified from mouse ascites by affinity-

chromatography using specific immunogen.

1/5



Host:

Modifications:

Mouse

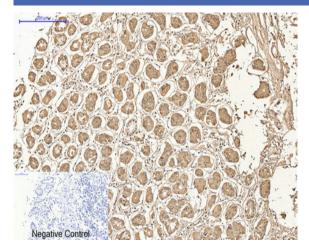
Unmodified

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability: Observed Band:** 42kD Primary bile acid biosynthesis; **Cell Pathway: Background:** This gene encodes a racemase. The encoded enzyme interconverts pristancyl-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], **Function:** catalytic activity:(2S)-2-methylacyl-CoA = (2R)-2-methylacyl-CoA..disease:Defects in AMACR are the cause of alpha-methylacyl-CoA racemase deficiency (AMACRD) [MIM:604489], AMACRD results in elevated plasma concentrations of pristanic acid C27-bile-acid intermediates. It can be associated with polyneuropathy, retinitis pigmentosa, epilepsy., disease: Defects in AMACR are the cause of congenital bile acid synthesis defect type 4 (CBAS4) [MIM:214950]; also known as cholestasis, intrahepatic, with defective conversion of trihydroxycoprostanic acid to cholic acid or trihydroxycoprostanic acid in bile. Clinical features include neonatal jaundice, intrahepatic cholestasis, bile duct deficiency and absence of cholic acid from bile..function:Racemization of 2-methyl-branched fatty acid CoA esters. Responsible for the conversion of pristanoyl-CoA and C27-bile acyl-CoAs to their (S)-stereoisomers..pa **Subcellular** Peroxisome . Mitochondrion . Location: Aorta, Brain, Cerebellum, Kidney, Liver, PCR rescued clones, Prostate cancer, Sali **Expression:** Tag: hot Sort: 1937 No4:

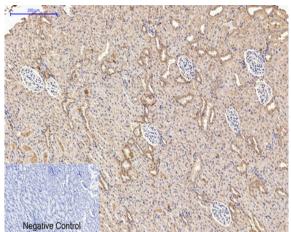
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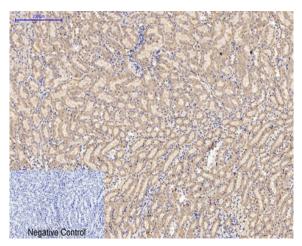
Products Images



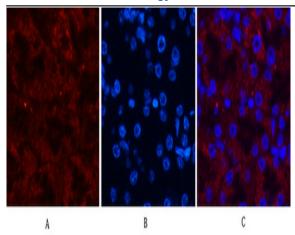
Immunohistochemical analysis of paraffin-embedded Humanstomach tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



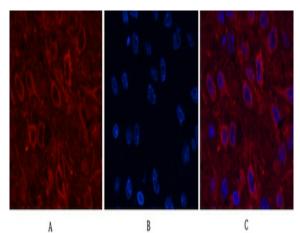
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



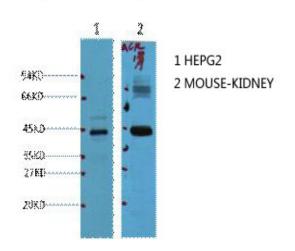
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



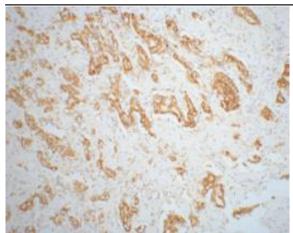
Immunofluorescence analysis of Mouse-kidney tissue. 1,AMACR Monoclonal Antibody(4A12)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



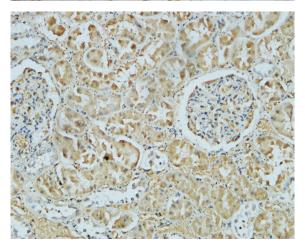
Immunofluorescence analysis of Rat-brain tissue. 1,AMACR Monoclonal Antibody(4A12)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) HepG2, 2) Mouse Kidney, diluted at 1:1000.



IHC staining of mouse prostate adenocarcinoma tissue, diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Right kidney. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).