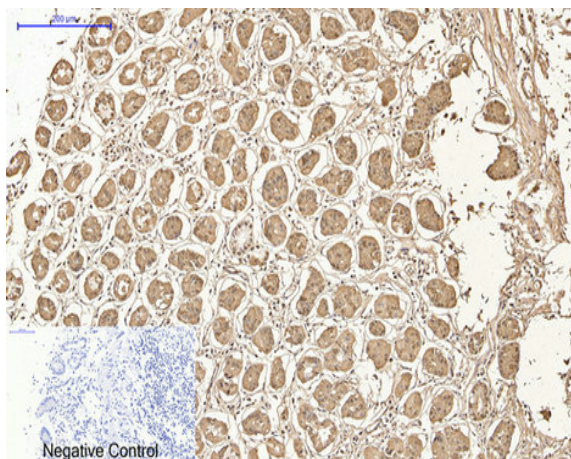


AMACR Monoclonal Antibody(4A12)

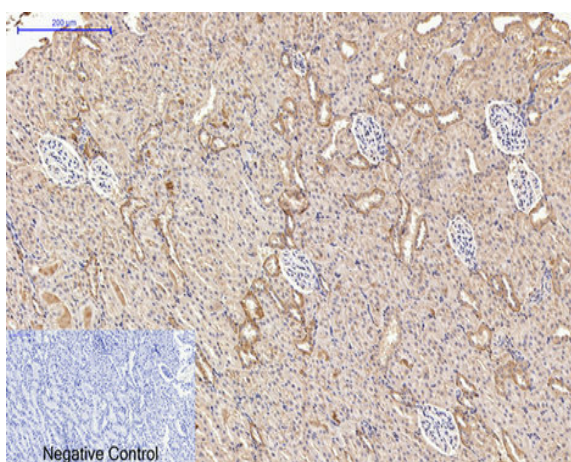
Catalog No :	YM3047
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;IHC
Target :	AMACR
Fields :	>>Primary bile acid biosynthesis;>>Metabolic pathways;>>Peroxisome
Gene Name :	AMACR
Protein Name :	Alpha-methylacyl-CoA racemase
Human Gene Id :	23600
Human Swiss Prot No :	Q9UHK6
Mouse Gene Id :	17117
Mouse Swiss Prot No :	O09174
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.

Storage Stability :	<u>-15 °C to -25 °C/1 year(Do not lower than -25 °C)</u>
Observed Band :	<u>42kD</u>
Cell Pathway :	<u>Primary bile acid biosynthesis;</u>
Background :	<u>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],</u>
Function :	<u>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</u>
Subcellular Location :	<u>Peroxisome . Mitochondrion .</u>
Expression :	<u>Aorta,Brain,Cerebellum,Kidney,Liver,PCR rescued clones,Prostate cancer,Sali</u>
Tag :	<u>hot</u>
Sort :	<u>1937</u>
No4 :	<u>1</u>
Host :	<u>Mouse</u>
Modifications :	<u>Unmodified</u>

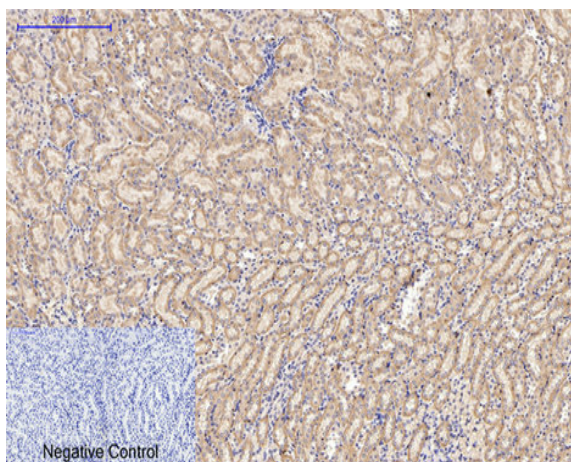
Products Images



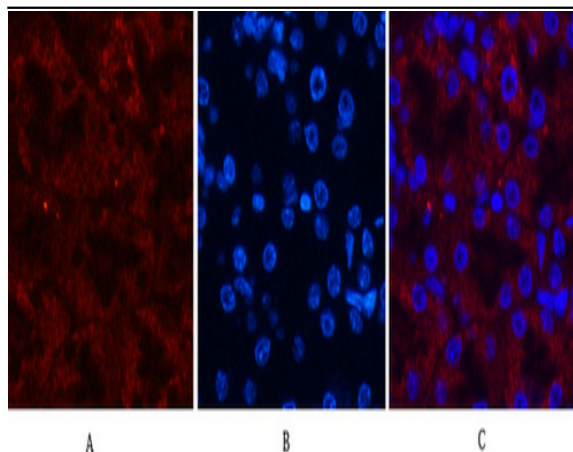
Immunohistochemical analysis of paraffin-embedded Human-stomach tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control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



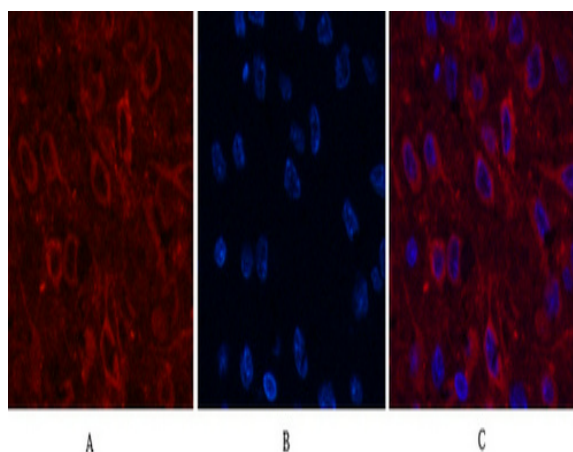
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was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



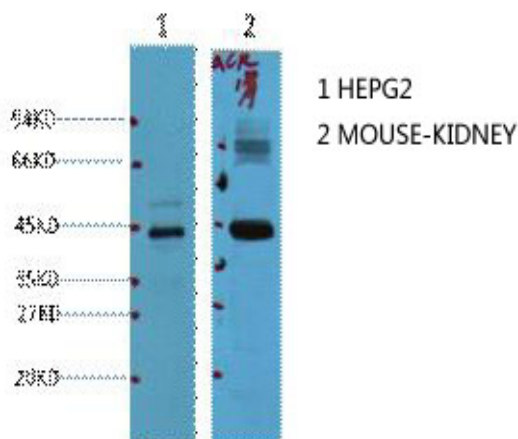
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was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



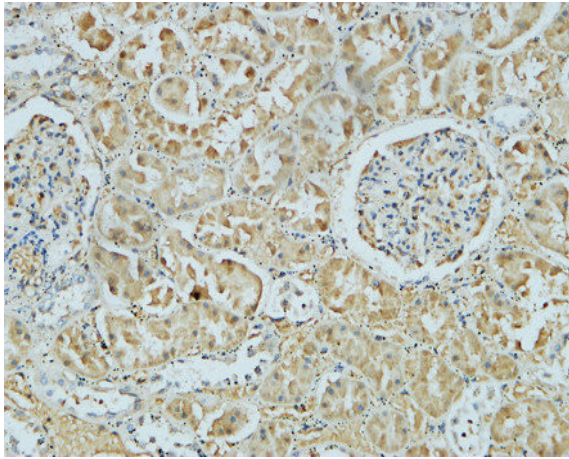
Immunofluorescence analysis of Rat-brain tissue. 1, AMACR Monoclonal Antibody(4A12)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



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).