

**AMACR Monoclonal Antibody(4A12)**  
**Catalog # AP63301****Specification****AMACR Monoclonal Antibody(4A12) - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q9UHK6</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal

**AMACR Monoclonal Antibody(4A12) - Additional Information****Gene ID** 23600**Other Names**

AMACR; Alpha-methylacyl-CoA racemase; 2-methylacyl-CoA racemase

**Dilution**

WB~~WB: 1:1000 IHC: 1:200 IF 1:200

IHC-P~~N/A

IF~~WB: 1:1000 IHC: 1:200 IF 1:200

**Format**

PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

**Storage Conditions**

-20°C

**AMACR Monoclonal Antibody(4A12) - Protein Information****Name** AMACR**Function**

Catalyzes the interconversion of (R)- and (S)-stereoisomers of alpha-methyl-branched-chain fatty acyl-CoA esters (PubMed:<a href="http://www.uniprot.org/citations/10655068" target="\_blank">10655068</a>, PubMed:<a href="http://www.uniprot.org/citations/11060359" target="\_blank">11060359</a>, PubMed:<a href="http://www.uniprot.org/citations/7649182" target="\_blank">7649182</a>). Acts only on coenzyme A thioesters, not on free fatty acids, and accepts as substrates a wide range of alpha-methylacyl-CoAs, including pristanoyl-CoA, trihydroxycoprostanoil-CoA (an intermediate in bile acid synthesis), and arylpropionic acids like the anti-inflammatory drug ibuprofen (2- (4-isobutylphenyl)propionic acid) but neither 3-methyl-branched nor linear-chain acyl-CoAs (PubMed:<a href="http://www.uniprot.org/citations/10655068" target="\_blank">10655068</a>, PubMed:<a href="http://www.uniprot.org/citations/11060359" target="\_blank">11060359</a>, PubMed:<a href="http://www.uniprot.org/citations/7649182" target="\_blank">7649182</a>).

**Cellular Location**

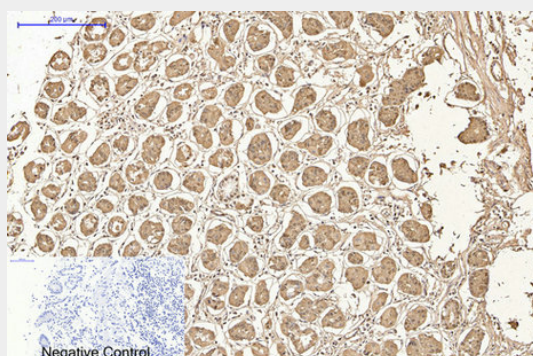
Peroxisome. Mitochondrion

### AMACR Monoclonal Antibody(4A12) - Protocols

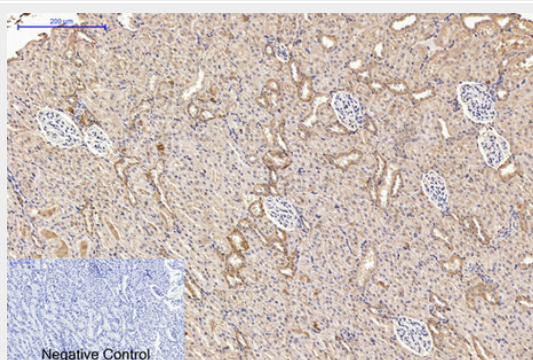
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

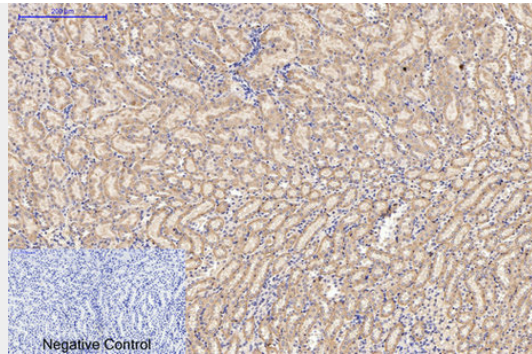
### AMACR Monoclonal Antibody(4A12) - Images



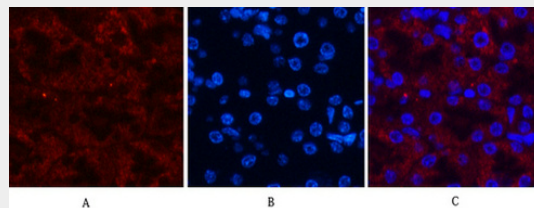
Immunohistochemical analysis of paraffin-embedded Human-stomach tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was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



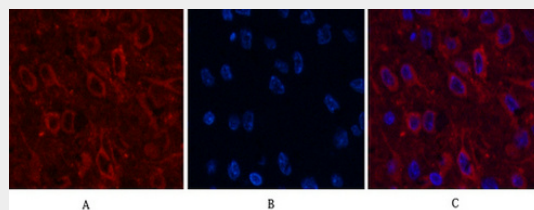
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used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



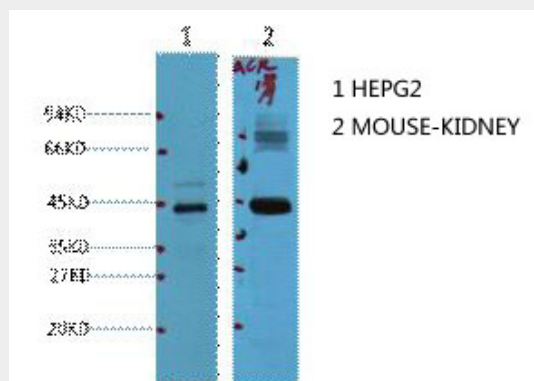
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,AMACR Monoclonal Antibody(4A12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was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



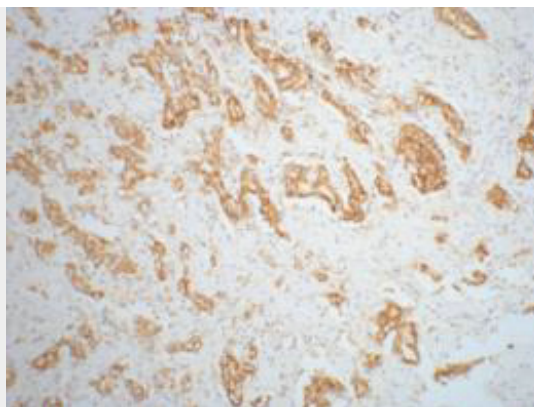
Immunofluorescence analysis of Mouse-kidney tissue. 1,AMACR Monoclonal Antibody(4A12)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



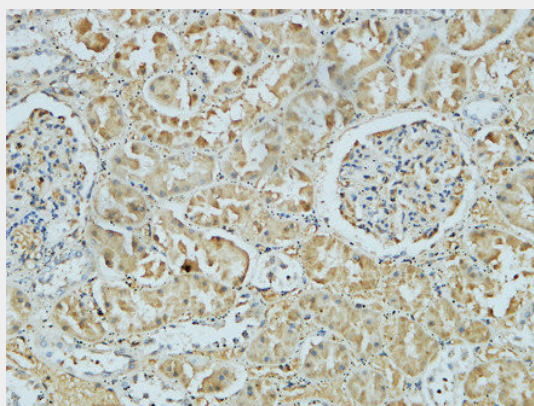
Immunofluorescence analysis of Rat-brain tissue. 1,AMACR Monoclonal Antibody(4A12)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



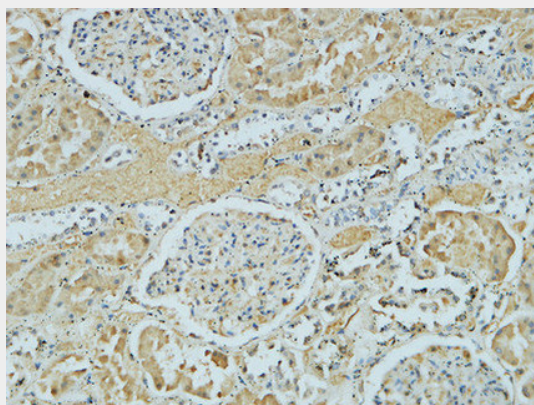
Western blot analysis of 1) HepG2, 2) Mouse Kidney, diluted at 1:1000.



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

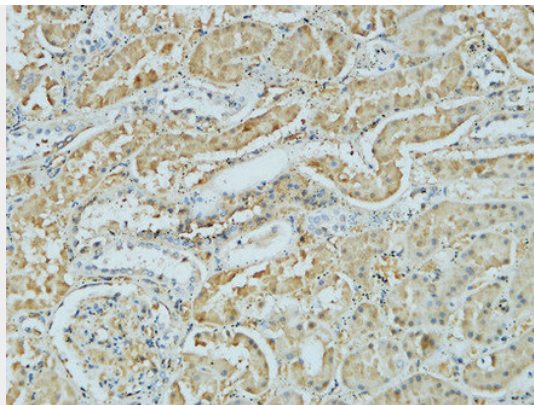


Immunohistochemical analysis of paraffin-embedded Human Right kidney. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

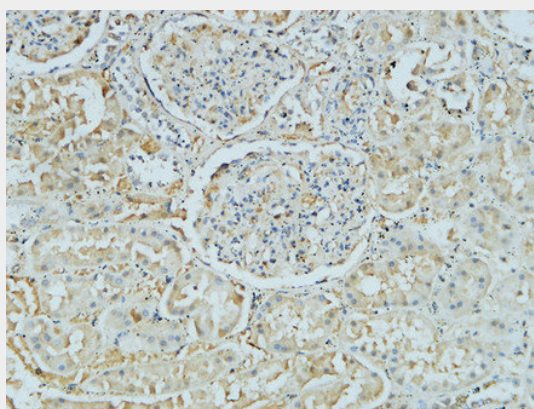


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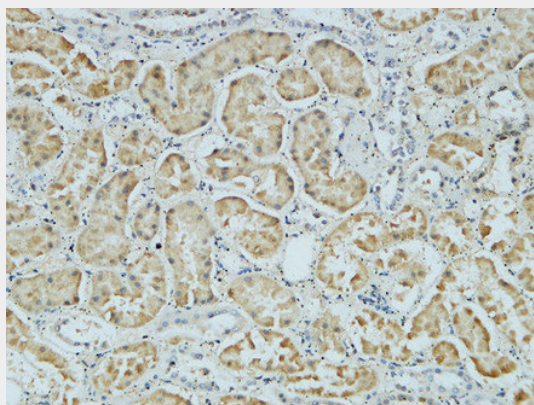




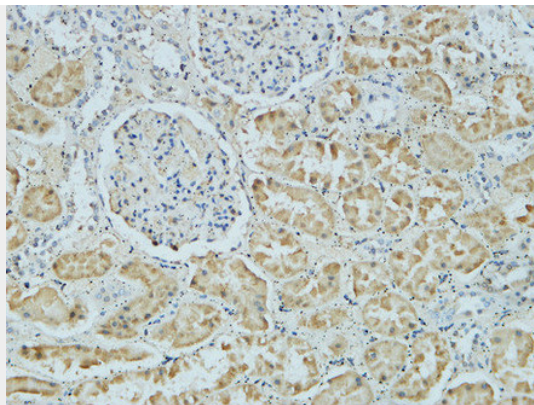
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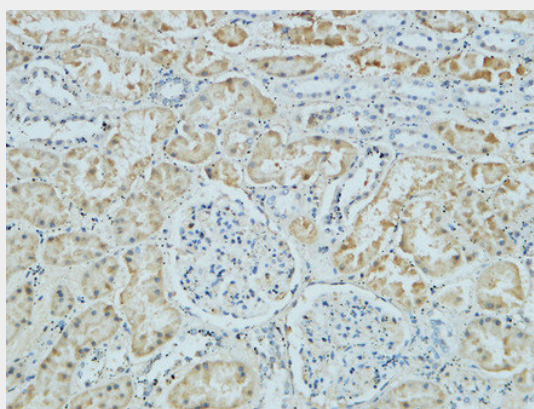
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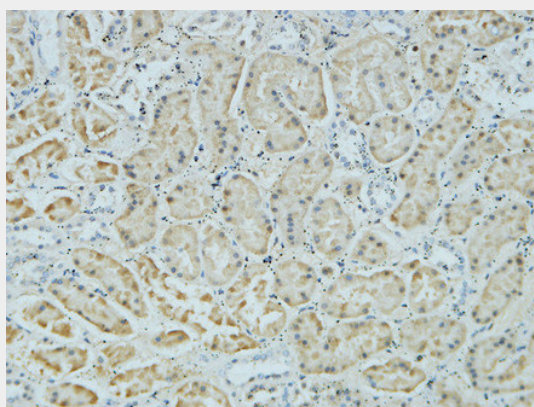
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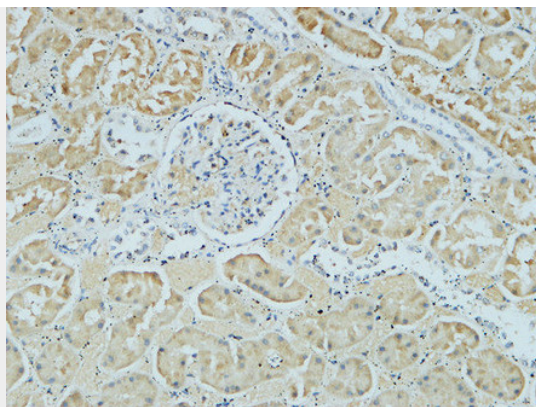


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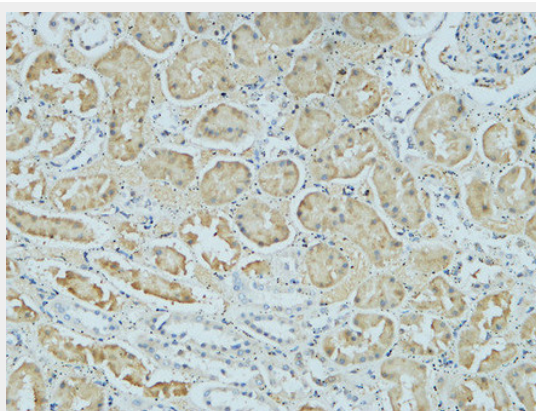


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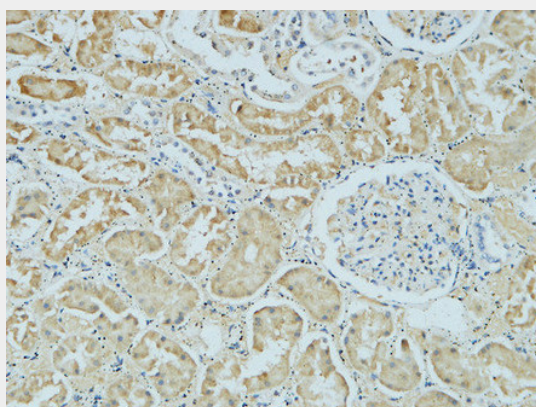




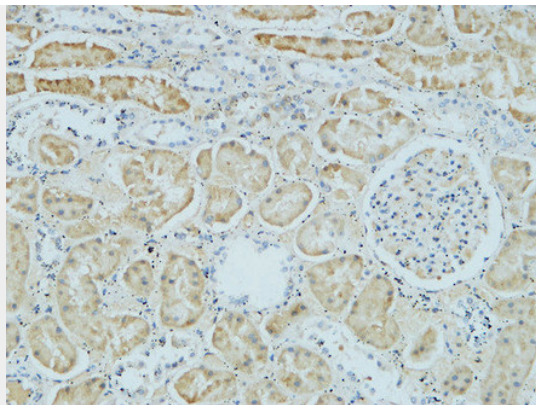
Immunohistochemical analysis of paraffin-embedded Human Right kidney. 1, Antibody was diluted at 1:400(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human Right kidney. 1, Antibody was diluted at 1:400(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).



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#### **AMACR Monoclonal Antibody(4A12) - Background**

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.