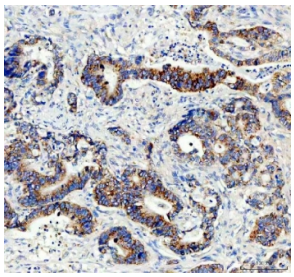
# AMACR Antibody (R32468)

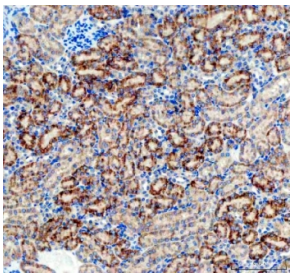
| Catalog No. | Formulation | Size |
|---|---|---|
| R32468 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

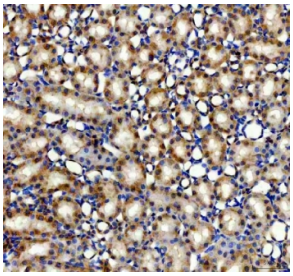
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q9UHK6 |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Immunofluorescence: 5ug/ml<br>Flow cytometry: 1-3ug/million cells |
| **Limitations** | This AMACR antibody is available for research use only. |



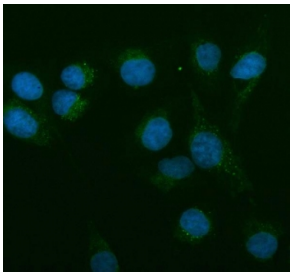
AMACR Antibody Stomach Cancer IHC. Immunohistochemistry staining of FFPE human stomach cancer tissue with AMACR antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



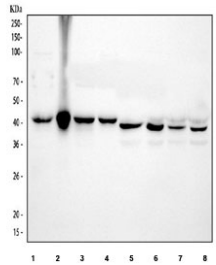
AMACR Antibody Mouse Kidney IHC. Immunohistochemistry staining of FFPE mouse kidney tissue with AMACR antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



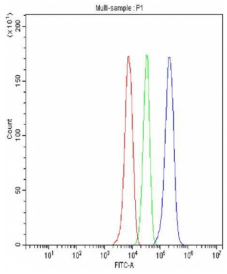
AMACR Antibody Rat Kidney IHC. Immunohistochemistry staining of FFPE rat kidney tissue with AMACR antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



AMACR Antibody U-2 OS Cell IF. Immunofluorescent staining of FFPE human U-2 OS cells with AMACR antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




AMACR Antibody Liver Kidney WB. Western blot testing of 1) rat kidney, 2) rat liver and 3) human HepG2 lysate with AMACR antibody at 0.5ug/ml. Predicted molecular weight ~43 kDa.




AMACR Antibody HepG2 Cell FACS. Flow cytometry testing of fixed and permeabilized human HepG2 cells with AMACR antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AMACR antibody.

## Description

AMACR Antibody specifically detects Alpha-methylacyl-CoA racemase, a mitochondrial and peroxisomal enzyme. It 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.

For additional AMACR and p504S research antibodies validated by protein microarray specificity analysis, western blotting, and immunohistochemistry, explore the broader AMACR Antibody page featuring clone AMACR/1864.

## Application Notes

Optimal dilution of the AMACR antibody should be determined by the researcher.

## Immunogen

Amino acids RGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIK from the human protein were used as the immunogen for the AMACR antibody.

## Storage

Prior to reconstitution, store at 4oC. After reconstitution, the AMACR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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