

## AMACR Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA0152
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Purified recombinant fragment of human AMACR expressed in E. Coli.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IHC-p, IF, ICC, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Alpha-methylacyl-CoA racemase
<b>Synonyms</b>	AMACR; Alpha-methylacyl-CoA racemase; 2-methylacyl-CoA racemase

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### 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.

### Recommended Dilution

ELISA: 1:10000

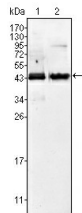
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

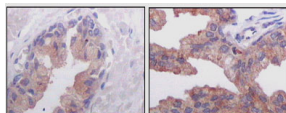
WB: 1:500 - 1:2000

Not yet tested in other applications.

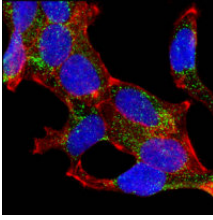
### Images



Western Blot analysis using AMACR Monoclonal antibody against Jurkat (1) and LNCaP (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human normal prostate tissues (left) and prostate adenocarcinoma tissues (right), showing cytoplasmic localization with DAB staining using AMACR Monoclonal antibody.



Confocal immunofluorescence analysis of LNCaP cells using AMACR Monoclonal antibody (green).  
Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

### Storage

-20°C for one year

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