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#3207

## AMACR (2A10) Mouse mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42	<b>Source/Isotype:</b> Mouse IgG2b	<b>UniProt ID:</b> #Q9UHK6	<b>Entrez-Gene Id:</b> 23600
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

AMACR (2A10) Mouse mAb detects endogenous levels of total AMACR protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a purified truncated recombinant human AMACR-His fusion protein.

### Background

α-Methylacyl-CoA racemase (AMACR), an enzyme localized in peroxisomes and mitochondria, is involved in the β-oxidation of branched-chain fatty acids and fatty acid derivatives (1). AMACR has been reported to be a biomarker for prostate cancer (2-4). AMACR expression is also related to other types of cancers, such as hepatocellular carcinoma (1), noninvasive bladder cancer (5), colorectal cancer (6), and gastric adenocarcinoma (7).

### Background References

- Li, W. et al. (2008) *J Exp Clin Cancer Res* 27, 2.
- Rubin, M.A. et al. (2002) *JAMA* 287, 1662-70.
- Jiang, Z. et al. (2002) *Am J Surg Pathol* 26, 1169-74.
- Jiang, Z. et al. (2001) *Am J Surg Pathol* 25, 1397-404.
- Gunia, S. et al. (2008) *Virchows Arch* 453, 165-70.
- Marx, A. et al. (2008) *Virchows Arch* 453, 243-248.
- Truong, C.D. et al. (2008) *Int J Clin Exp Pathol* 1, 518-523.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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