

AMACR (2A10) Mouse mAb

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

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

1. Li, W. et al. (2008) *J Exp Clin Cancer Res* 27, 2.
2. Rubin, M.A. et al. (2002) *JAMA* 287, 1662-70.
3. Jiang, Z. et al. (2002) *Am J Surg Pathol* 26, 1169-74.
4. Jiang, Z. et al. (2001) *Am J Surg Pathol* 25, 1397-404.
5. Gunia, S. et al. (2008) *Virchows Arch* 453, 165-70.
6. Marx, A. et al. (2008) *Virchows Arch* 453, 243-248.
7. 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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