

**AMACR Antibody (monoclonal) (M02)**

Mouse monoclonal antibody raised against a full-length recombinant AMACR.

Catalog # AT1128a

**Specification**

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**AMACR Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O9UHK6</a>
Other Accession	<a href="#">BC009471</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	42387

**AMACR Antibody (monoclonal) (M02) - Additional Information****Gene ID** 23600**Other Names**

Alpha-methylacyl-CoA racemase, 2-methylacyl-CoA racemase, AMACR

**Target/Specificity**

AMACR (AAH09471, 1 a.a. ~ 198 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

AMACR Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

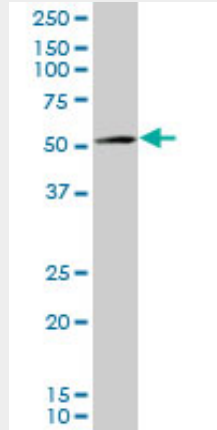
**AMACR Antibody (monoclonal) (M02) - Protocols**

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

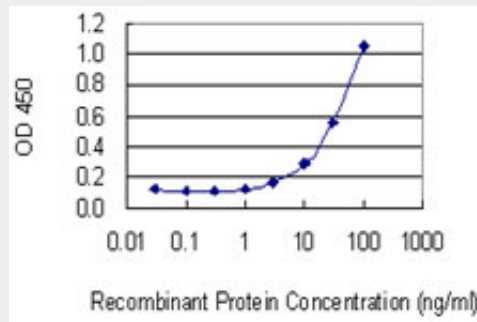
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### AMACR Antibody (monoclonal) (M02) - Images



AMACR monoclonal antibody (M02), clone 1D8. Western Blot analysis of AMACR expression in HepG2 ( Cat # L019V1 ).



Detection limit for recombinant GST tagged AMACR is 1 ng/ml as a capture antibody.

### AMACR Antibody (monoclonal) (M02) - 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.

### AMACR Antibody (monoclonal) (M02) - References

AMACR is associated with advanced pathologic risk factors in sporadic colorectal adenomas. Lakis S, et al. *World J Gastroenterol*, 2010 May 28. PMID 20503447. How useful is alpha-methylacyl-CoA racemase (AMACR) immunohistochemistry in the differential diagnosis of kidney cancers? Szponar A, et al. *Histopathology*, 2010 Jan. PMID 20102405. Genetic susceptibility to distinct bladder cancer subphenotypes. Guey LT, et al. *Eur Urol*, 2010 Feb. PMID 19692168. Expression of alpha-methylacyl-CoA racemase (P504S) in sebaceous neoplasms. Halsey MA, et al. *J Cutan Pathol*, 2010 Apr. PMID 19638170. PTEN identified as important risk factor of chronic obstructive pulmonary disease. Hosgood HD 3rd, et al. *Respir Med*, 2009 Dec. PMID 19625176.