

AMACR Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a full-length recombinant AMACR.****Catalog # AT1128a****Specification**

AMACR Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	O9UHK6
Other Accession	BC009471
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

E~~N/A

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.

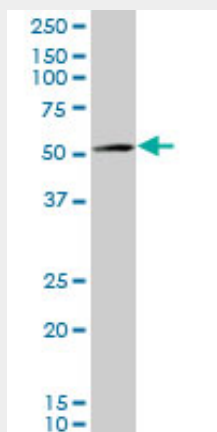
AMACR Antibody (monoclonal) (M02) - Protocols

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

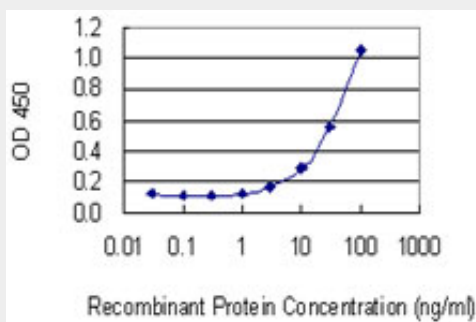
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [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.