

Mouse AMACR/p504S Monoclonal Antibody | anti-AMACR antibody

AMACR/p504S (Prostate Cancer Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62984	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

AMACR/p504S; Monoclonal Antibody; AMACR/p504S (Prostate Cancer Marker); Alpha-methylacyl-CoA Racemase; CBAS4; Da1-8; Macr1; RACE; RM; anti-AMACR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG
Clone Number	AMACR/1723
Specificity	This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S. It is an enzyme that is involved in bile acid biosynthesis and beta-oxidation of branched-chain fatty acids. AMACR is essential in lipid metabolism. It is expressed in cells of premalignant high-grade prostatic intraepithelial neoplasia (HGPIN) and prostate adenocarcinoma. The majority of the carcinoma cells show a distinct granular cytoplasmic staining reaction. AMACR is present at low or undetectable levels in glandular epithelial cells of normal prostate and benign prostatic hyperplasia. A spotty granular cytoplasmic staining is seen in a few cells of the benign glands. AMACR is expressed in normal liver (hepatocytes), kidney (tubular epithelial cells) and gall bladder (epithelial cells). Expression has also been found in lung (bronchial epithelial cells) and colon (colonic surface epithelium). AMACR expression can also be found in hepatocellular carcinoma and kidney carcinoma. Past studies have also shown that AMACR is expressed in various colon carcinomas (well, moderately and poorly differentiated) and over expressed in prostate carcinoma.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	394
Applicable Applications for anti-AMACR antibody	IHC (Immunohistochemistry), IF (Immunofluorescence)
Immunogen	Recombinant human full-length AMACR protein
Cellular Localization	Cytoplasmic
Hu-chromosome Location	5p13.3
Positive Control	HEK cells or Prostate Adenocarcinoma
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with HER-2 Monoclonal Antibody (HRB2/451).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Prostate Carcinoma Stained with AMACR / p504S Monoclonal Antibody (AMACR/1723)

ADDITIONAL INFORMATION

References	Jiang Z et. al. Human Pathology. 2003; 34(8):792. Jiang Z et. al. Am J Surg Pathol. 2001; 25(11):1397
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NCBI AND UNIPROT INFORMATION

NCBI GI #	266456254
NCBI GeneID	23600
NCBI Accession #	NP_001161067.1
NCBI GenBank Nucleotide #	NM_001167595.1
UniProt Accession #	Q9UHK6; O43673; Q3KT79; Q96GH1; Q9Y3Q1; A5YM47; B8Y916; B8Y918; F8W9N1
Molecular Weight	54kDa
NCBI Official Full Name	alpha-methylacyl-CoA racemase isoform 3
NCBI Official Synonym Full Names	alpha-methylacyl-CoA racemase
NCBI Official Symbol	AMACR
NCBI Official Synonym Symbols	RM; RACE; CBAS4; P504S; AMACRD
NCBI Protein Information	alpha-methylacyl-CoA racemase
UniProt Protein Name	Alpha-methylacyl-CoA racemase
UniProt Gene Name	AMACR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/amacr-p504s-antibody-clone-amacr-1723-immunohistochemistry-immunofluorescence-elisa/62984>