

Mouse anti-Human AMACR/p504S Antibody | anti-AMACR antibody

AMACR/p504S (Prostate Cancer Marker)

CATALOG # AAA214976	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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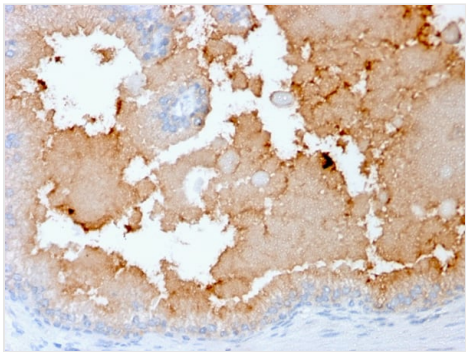
PRODUCT SYNONYMS

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

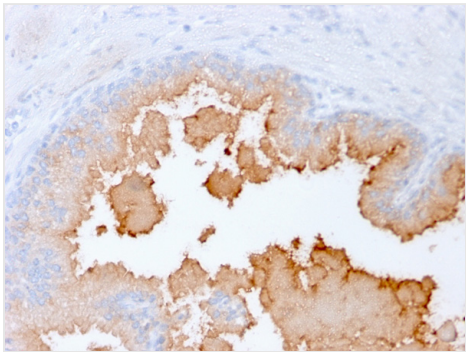
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	IgG1, kappa
Clone Number	rAMACR/1864
Specificity	This antibody recognizes a protein of 42kDa, which is identified as AMACR, also known as p504S. It is an enzyme that is involved in bile acid biosynthesis and -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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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)
Positive Control	HEK cells. Prostate Adenocarcinoma.
Immunogen	Recombinant human AMACR protein fragment (around aa 297-394) (exact sequence is proprietary)
Cellular Localization	Cytoplasmic (granular)
Hu-chromosome Location	5p13.3
Antibody Type	Recombinant Mouse Monoclonal Antibody
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.

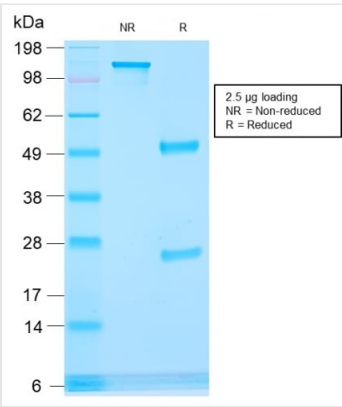
IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with AMACR Recombinant Mouse Monoclonal Antibody (rAMACR/1864).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with AMACR Recombinant Mouse Monoclonal Antibody (rAMACR/1864).



SDS-PAGE
SDS-PAGE Analysis Purified AMACR Recombinant Mouse Monoclonal Antibody (rAMACR/1864). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Jiang Z et. al. Human Pathology. 2003; 34(8):792
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NCBI AND UNIPROT INFORMATION

NCBI GI #	266456254
NCBI GeneID	23600
NCBI Accession #	NP_001161067.1
NCBI GenBank Nucleotide #	NP_001161067.1
UniProt Accession #	Q9UHK6
Molecular Weight	42kDa
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
UniProt Entry Name	AMACR_HUMAN

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://www.aaabiotech.com/mouse-human-antibody/amacr-p504s/214976>