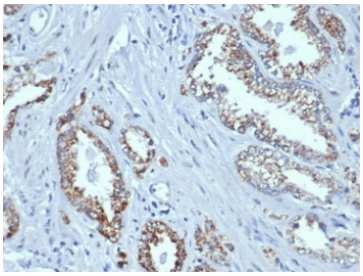
Recombinant AMACR / p504S Antibody (Prostate Cancer Marker) [clone rAMACR/6369] (V9306)

Catalog No.	Formulation	Size
V9306-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9306-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9306SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

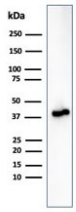
Recombinant | MOUSE MONOCLONAL

Bulk quote request

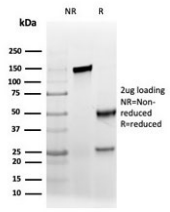
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	rAMACR/6369
Purity	Protein A/G affinity
UniProt	Q9UHK6
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml (Human/Mouse/Rat/Hamster) Immunohistochemistry (FFPE): 1-2ug/ml (Human)
Limitations	This recombinant AMACR antibody is available for research use only.



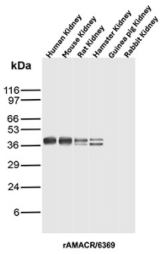
IHC staining of FFPE human prostate tissue with recombinant AMACR antibody (clone rAMACR/6369). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



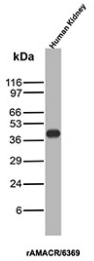
Western blot testing of human kidney lysate using recombinant AMACR antibody (clone rAMACR/6369). Predicted molecular weight ~43 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant AMACR antibody (clone rAMACR/6369) as confirmation of integrity and purity.



Recombinant AMACR / p504S Antibody Kidney Tissue WB. Western blot analysis of human, mouse, rat, hamster, guinea pig, and rabbit kidney tissue lysates using recombinant AMACR / p504S Antibody clone rAMACR/6369 demonstrates bands at approximately 40-42 kDa, consistent with the predicted molecular weight of Alpha-methylacyl-CoA racemase / AMACR. Similar cross-species banding patterns support recognition of this peroxisomal and mitochondrial metabolic enzyme involved in branched-chain fatty acid and bile acid metabolism. Doublet formation observed in selected species may reflect isoform variation or post-translational modification.



Recombinant AMACR / p504S Antibody Human Kidney WB. Western blot analysis of human kidney tissue lysate using recombinant AMACR / p504S Antibody clone rAMACR/6369 demonstrates a distinct band at approximately 40-42 kDa, consistent with the predicted molecular weight of Alpha-methylacyl-CoA racemase / AMACR. The observed signal supports expression of this peroxisomal and mitochondrial metabolic enzyme involved in branched-chain fatty acid and bile acid metabolism within renal tissue.

Description

Recombinant AMACR / p504S 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.

For additional AMACR and p504S research antibodies validated by protein microarray specificity analysis, western blotting, and immunohistochemistry, explore the broader AMACR Antibody page featuring clone AMACR/1864.

Application Notes

Optimal dilution of the recombinant AMACR antibody should be determined by the researcher.

Immunogen

Recombinant full-length human AMACR protein was used as the immunogen for the recombinant AMACR antibody.

Storage

Aliquot the recombinant AMACR antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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