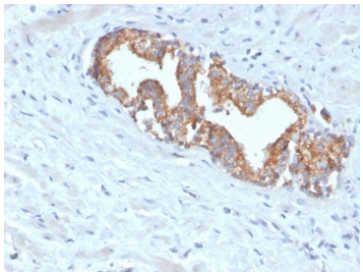
Recombinant AMACR Antibody / p504S [clone AMACR/4572R] (V8118)

Catalog No.	Formulation	Size
V8118-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8118-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8118SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

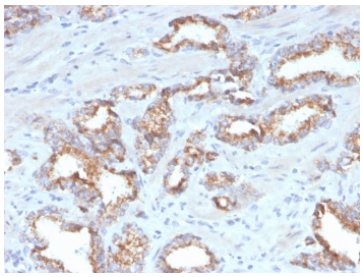
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster, Guinea pig
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	AMACR/4572R
Purity	Protein A affinity chromatography
UniProt	Q9UHK6
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (Human) Western Blot : 1-2ug/ml (Human/Mouse/Rat/Hamster/Guinea pig)
Limitations	This recombinant AMACR antibody is available for research use only.



IHC testing of FFPE human prostate carcinoma with recombinant AMACR antibody. Required HIER: steam section in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool prior to staining.



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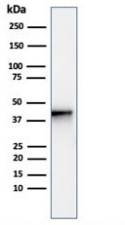
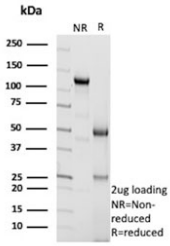
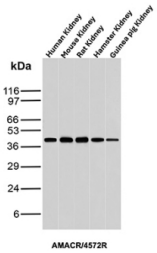


Western blot testing of human kidney lysate with recombinant AMACR antibody. Predicted molecular weight ~43 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant AMACR antibody (clone AMACR/4572R) as confirmation of integrity and purity.



AMACR Antibody Multi-Species Kidney Tissue WB. Western blot analysis of human, mouse, rat, hamster, and guinea pig kidney tissue lysates using AMACR Antibody clone AMACR/4572R demonstrates a conserved band at approximately 40-42 kDa across all tested species, consistent with the predicted molecular weight of Alpha-methylacyl-CoA racemase / AMACR. The observed cross-species reactivity supports detection of this peroxisomal and mitochondrial metabolic enzyme involved in branched-chain fatty acid and bile acid metabolism.

Description

Recombinant AMACR 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 b-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

Full length protein was used as the immunogen for the recombinant AMACR antibody.

Storage

Store the recombinant AMACR antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).