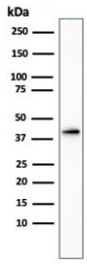
AMACR / p504S Antibody (Prostate Cancer Marker) (V8877)

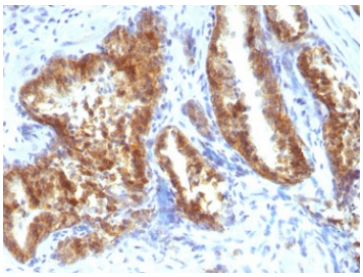
Catalog No.	Formulation	Size
V8877-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8877-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8877SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

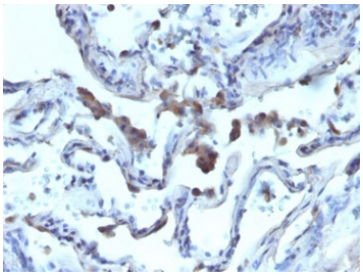
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Protein A affinity
UniProt	Q9UHK6
Localization	Cytoplasmic
Applications	Western Blot : 1:50-1:100 Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This AMACR antibody is available for research use only.



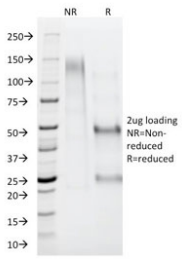
Western blot testing of human kidney tissue lysate using AMACR antibody. Predicted molecular weight ~43 kDa.



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



IHC staining of FFPE human lung carcinoma tissue with AMACR antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free AMACR antibody as confirmation of integrity and purity.

Description

AMACR, also known as p504S, 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.

Application Notes

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

Immunogen

A synthetic peptide from human AMACR protein was used as the immunogen for the AMACR antibody.

Storage

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