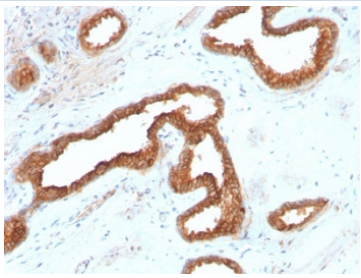
Recombinant AMACR Antibody / p504S [clone AMACR/2748R] (V7480)

Catalog No.	Formulation	Size
V7480-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7480-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7480SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7480IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

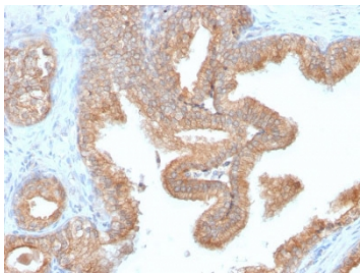
Recombinant RABBIT MONOCLONAL

Bulk quote request

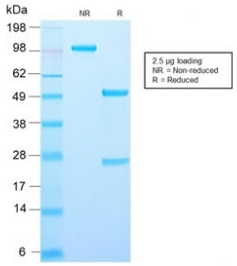
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	AMACR/2748R
Purity	Protein A affinity chromatography
UniProt	Q9UHK6
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This recombinant AMACR antibody is available for research use only.



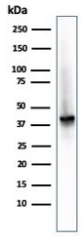
IHC testing of FFPE human renal cell carcinoma with recombinant AMACR antibody. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human prostate carcinoma with recombinant AMACR antibody. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



SDS-PAGE analysis of purified, BSA-free AMACR antibody (clone AMACR/2748R) as confirmation of integrity and purity.



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

Description

This antibody recognizes a protein of 43kDa, 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.

Application Notes

Optimal dilution of the recombinant AMACR antibody should be determined by the researcher.
1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 297-394 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).