Datasheet for ABIN6933896

anti-AMACR antibody

3 Images

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Overview

Quantity:	0.1 mL
Target:	AMACR
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This AMACR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Full length human recombinant AMACR protein
Clone:	13H4
Isotype:	IgG
Specificity:	This antibody recognizes a protein of 54 kDa, 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

Product Details

	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.
Cross-Reactivity (Details):	Human.

Target Details

Target:	AMACR
Alternative Name:	AMACR (AMACR Products)
Background:	Alpha-methylacyl-CoA Racemase, CBAS4, Da1-8, Macr1, RACE, RM,AMACR / p504S (Prostate Cancer Marker) Cellular localisation: Cytoplasmic
Molecular Weight:	42kDa
Gene ID:	23600, 508343
UniProt:	Q9UHK6
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Known_Application: Western Blot (1:50-1:100), Immunohistochemistry (Formalin-fixed) (1:50-1:100 for 30-60 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 1 mM EDTA, pH 7.5-8.5, for 45 min at 95&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. Positive_Control: HEK cells. Prostate Adenocarcinoma and human kidney tissue.
Restrictions:	For Research Use only

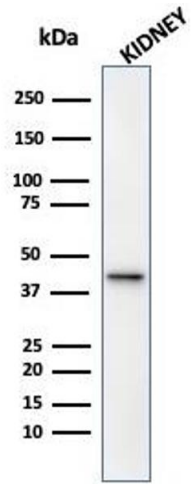
Handling

Buffer:	Culture Supernatant with 0.05% Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

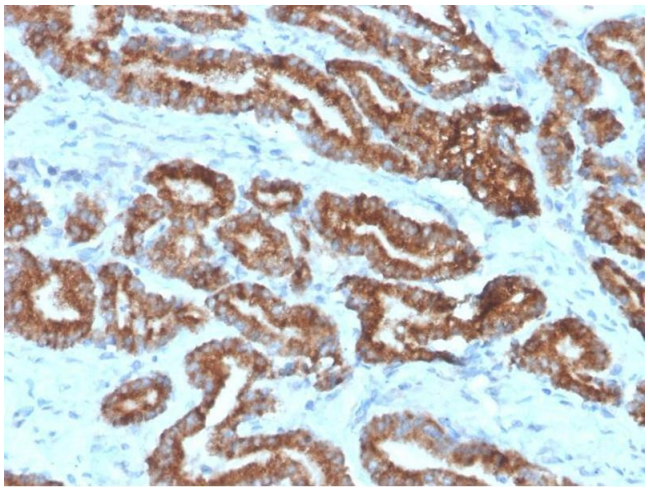
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



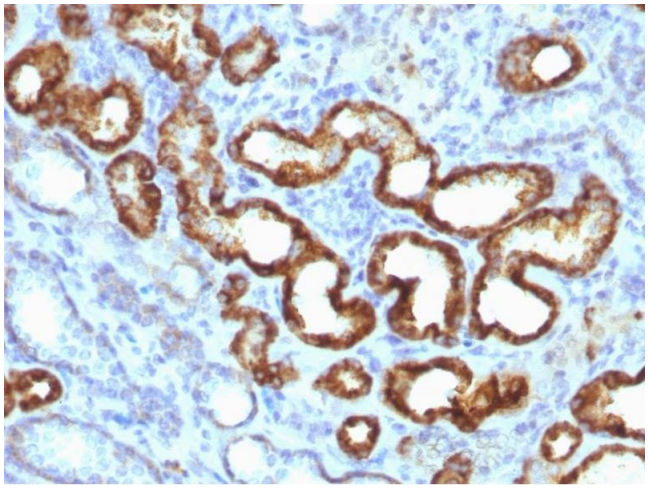
Western Blotting

Image 1. Western Blot Analysis of Human Kidney tissue lysate using AMACR / p504S Rabbit Monoclonal Antibody (13H4).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human prostate carcinoma (10X) stained with AMACR / p504S Rabbit Monoclonal Antibody (13H4)



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human prostate carcinoma (20X) stained with AMACR / p504S Rabbit Monoclonal Antibody (13H4)