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## 36-1144: Monoclonal Antibody to AMACR / p504S (Prostate Cancer Marker)(Clone: 13H4)

Clonality: Monoclonal **Clone Name:** 13H4 Application: WB.IHC Reactivity: Human Gene: **AMACR** Gene ID: 23600 **Uniprot ID:** Q9UHK6 Format: Purified **Alternative Name:** AMACR

Immunogen Information: Full length human recombinant AMACR protein

Rabbit IgG

## **Description**

Isotype:

This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S. It is an enzyme that is involved in bile acid biosynthesis and beta-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.

## **Product Info**

Amount:  $100 \mu g$ 

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

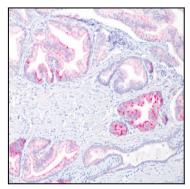
## **Application Note**

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 1mM EDTA, pH 7.5-8.5, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

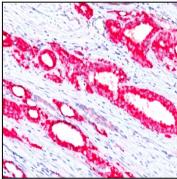


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Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with AMACR / p504S Rabbit Monoclonal Antibody (13H4)



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