9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 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 |
| **Isotype :** | Rabbit IgG |
| **Immunogen Information :** | Full length human recombinant AMACR protein |

## Description

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

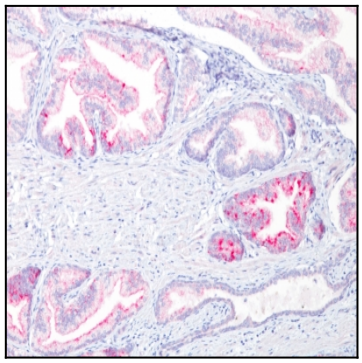
| | |
|---|---|
| **Amount :** | 100 µg |
| **Purification :** | Affinity Chromatography |
| **Content :** | 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| **Storage condition :** | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

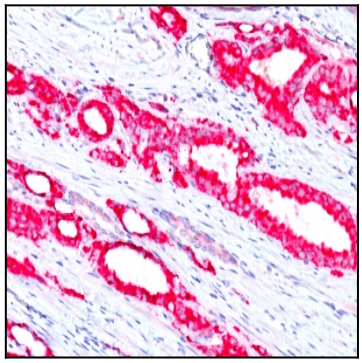
Western Blot (1:50-1:100); Immunohistochemistry (Formalin-fixed) (1:50-1:100 for 30-60 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com



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



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

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***