

## Recombinant AMACR / p504S (Prostate Cancer Marker) Antibody

Rabbit Monoclonal Antibody [Clone AMACR/4572R]

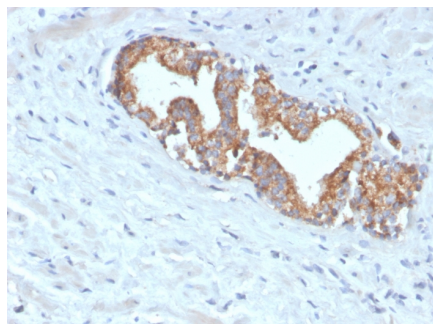
| Catalog No        | Format                            | Size     |
|-------------------|-----------------------------------|----------|
| 23600-RBM12-P0    | Purified Ab with BSA and Azide    | 200ug/ml |
| 23600-RBM12-P1    | Purified Ab with BSA and Azide    | 200ug/ml |
| 23600-RBM12-P1ABX | Purified Ab WITHOUT BSA and Azide | 1.0mg/ml |

| Applications               | Tested Dillution |
|----------------------------|------------------|
| Immunofluorescence (IF)    | 1-3ug/ml         |
| Immunohistochemistry (IHC) | 1-2ug/ml         |
| Western Blot (WB)          | 2-4ug/ml         |

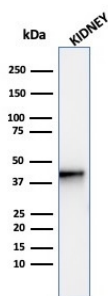
| Product Details               |   |
|-------------------------------|---|
| <b>Clone</b>                  | AMACR/4572R   |
| <b>Gene Name</b>              | AMACR   |
| <b>Immunogen</b>              | Recombinant full-length human AMACR protein                       |
| <b>Host</b>                   | Rabbit  |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG / Kappa   |
| <b>Mol. Weight of Antigen</b> | 42kDa   |
| <b>Cellular Localization</b>  | Mitochondrion, Peroxisome   |
| <b>Species Reactivity</b>     | Human   |
| <b>Positive Control</b>       | liver or prostate adenocarcinoma., PC3 or HEK cells. Human kidney |

*\*Optimal dilution for a specific application should be determined.*

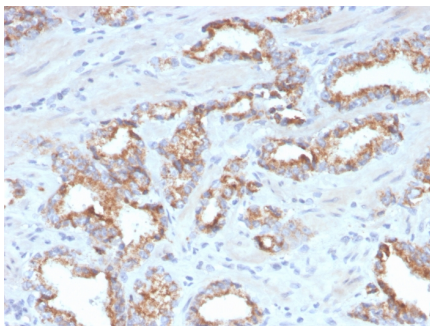
### Product Images for Recombinant AMACR / p504S (Prostate Cancer Marker) Antibody



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with AMACR Recombinant Rabbit Monoclonal Antibody (AMACR/4572R).



Western Blot Analysis of human kidney tissue lysate using AMACR Recombinant Rabbit Monoclonal Antibody (AMACR/4572R).



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with AMACR Recombinant Rabbit Monoclonal Antibody (AMACR/4572R).

### Specificity & Comments

This antibody recognizes a protein of 42kDa, which is identified as AMACR, also known as p504S. It is an enzyme that is involved in bile acid biosynthesis and  $\omega$ -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.

### Research Areas

Cardiovascular

### Known Applications & Suggested Dilutions

Immunofluorescence (1-2ug/ml) | Western Blot (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.