

## AMACR (P504S) (Clone 13H4) Rabbit Monoclonal Antibody

**Specificity:** Human. Other not tested

**Ig Class:** Rabbit IgG

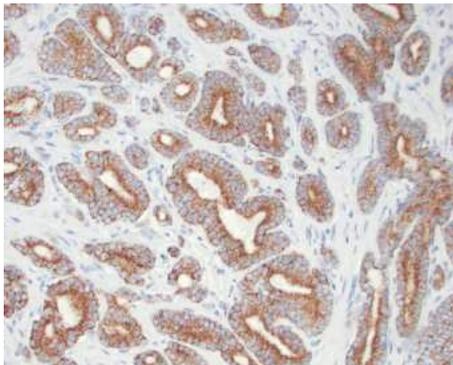
**Immunogen:** Human AMACR (P504S) polypeptide

**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 1 year for predilute form

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit IgG detection system. *Working dilution:* 1:150; *Positive Control:* Prostate carcinoma. *Cellular Localization:* Cytoplasmic; *Intended Use:* In vitro diagnosis (IVD).

**Application:** AMACR (P504S) is an essential enzyme in the  $\beta$ -oxidation of branched-chain fatty acids. Recently, AMACR (P504S) was identified through cDNA library subtraction and microarrays in malignant prostate tissues. High expression of AMACR (P504S) protein is found in prostatic adenocarcinoma but not in benign prostatic tissue by immunohistochemical staining in paraffin-embedded tissues. The expression of AMACR (P504S) is also detected in two premalignant lesions of the prostate: high-grade prostatic intraepithelial neoplasia (PIN) and atypical adenomatous hyperplasia. Using AMACR (P504S) as a positive marker along with basal cell staining (34  $\beta$ E12 or P63) as a negative marker could help to confirm the diagnosis of small focus of prostate carcinoma on needle biopsy.

**Supplied As:** Purified antibody in 0.2% BSA and 15mM sodium azide.



### References:

1. Xu J, et al. *Canc Res.* 2000; 60:1677
2. Jiang Z, et al. *Hum Pathol.* 2003; 34:792
3. Jiang Z, et al. *Am J Surg Pathol.* 2001; 25:1397

*Formalin-fixed, paraffin-embedded human prostate carcinoma stained anti-AMACR antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic and luminal circumferential staining of carcinoma glands*

Cat #: Z2001 (0.5 ml, concentrate); Z2001L (1.0 ml, concentrate); Z2001R (6.0 ml, predilute)