

# AMACR + p63 Cocktail (Clones 13H4+4A4)

## Rabbit and Mouse Monoclonal Antibodies

**Specificity:** Human, others not tested

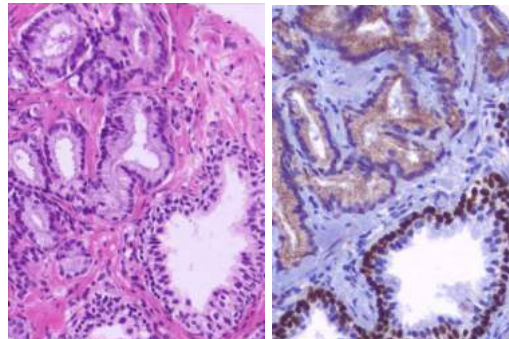
**Ig Class:** IgG, IgG<sub>2α</sub>

**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 1 year for prediluted 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:* 1:50. *Positive Control:* Prostate carcinoma. *Localization:* Cytoplasmic. *Intend use:* Analyte Specific Reagent (ASR).

**Application:** AMACR is an essential enzyme in the  $\beta$ -oxidation of branched-chain fatty acids. High expression of AMACR protein is found in prostate adenocarcinoma but not in benign prostate tissue by immunohistochemical staining in paraffin-embedded tissue. The expression of AMACR is also detected in prostate premalignant lesions, such as prostate intraepithelial neoplasia (PIN). The p63 protein, a homologue of the tumor-suppressor p53, is highly expressed in the basal or progenitor layer of many epithelial tissues. P63 is detected in prostate basal cells in normal prostate glands and PIN. However, it is negative in prostate adenocarcinoma. Thus p63 is useful as a differential marker for benign prostate glands and adenocarcinoma (negative marker). The combination of AMACR and p63 may be extremely useful for diagnosing PIN and small focus adenocarcinoma, especially in difficult cases and cases with limited tissues. AMACR stains cytoplasm in prostate adenocarcinoma and PIN while p63 stains basal cell nuclei in PIN and benign prostate glands.

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



H&E

AMACR+p63

*Formalin-fixed, paraffin-embedded human prostate carcinoma stained anti-AMACR and anti-p63 antibodies using peroxidase-conjugate and DAB chromogen. Note cytoplasmic and luminal circumferential staining of carcinoma glands with AMACR and basal cell nuclear staining with p63.*

**Cat. #** Z2005 (0.5 ml, concentrate); Z2005L (1.0 ml, concentrate); Z2005R (6.0 ml, prediluted)