

AMACR+P63+HMW CK Cocktail

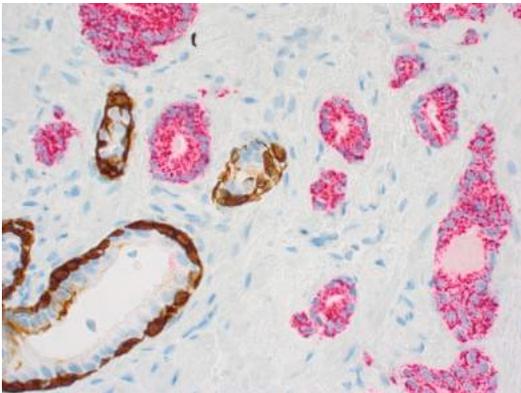
Rabbit and Mouse Monoclonal Antibodies

Specificity:	Human, others not tested
Clone:	13H4 + ZM70 + 34 β E12
Ig Class:	IgG, IgG1, IgG _{2a}
Storage:	For short-term maintain at +2-8°C for 4 months. For long-term storage maintain at -20°C in concentrated aliquots.

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 Ig detection system. *Working dilution:* 1:50; *Positive Control:* Prostate intraepithelial neoplasia. *Cellular Localization:* Cytoplasmic/nuclear; *Intended Use:* Analyte specific reagent (ASR).

Application: AMACR is an essential enzyme in the β -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 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. CK 34 β E12 recognizes basal cells of benign prostate glands and PIN. Like p63, it is negative in prostate adenocarcinoma. Thus CK 34 β E12 and p63 are useful as differential markers for benign prostate glands and adenocarcinoma (negative markers). The combination of AMACR, CK 34 β E12 and p63 may be extremely useful for diagnosing PIN and small focus adenocarcinoma, especially in difficult cases and cases with limited tissues.

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



References:

1. Moll R, et al. *Cell*. 1982; 31(1):11-24.
2. Shah RB, et al. *Am J Surg Pathol*. 2002; 26:1161-8.
3. Shah RB, et al. *Hum Pathol*. 2007; 38:332-41.

Formalin-fixed paraffin-embedded human prostate adenocarcinoma stained with PIN 4 using DAB-conjugate p63 & HMW CK34bE12 and AEC-conjugated AMACR. Note the benign glands are p63+/HMW CK34bE12+/AMACR- whereas adenocarcinoma is p63-/HMW CK34bE12-/AMACR+

Cat#: Z2017 (0.5ml, concentrate), Z2017L (1ml concentrate), Z2017R (6.0ml; predilute)