

# Prostate Cocktail (13H4+4A4+34βE12)

## Rabbit & Mouse Monoclonal Antibody Cocktail

**Host:** Rabbit & Mouse  
**Specificity:** Human  
**Immunogen:** Human AMACR (P504S) , p63, and CKHMW (34βE12) polypeptides  
**Ig Class:** IgG, IgG1 + IgG2a  
**Storage:** When stored at 2-8°C, this antibody cocktail is stable for 18 months.

**Specifications:** Prostate Cocktail (13H4+4A4+34βE12) Rabbit & Mouse Monoclonal Primary Antibody Cocktail detects AMACR, p63, and HMW CK protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

### Staining Procedures:

Use formalin-fixed and paraffin-embedded sections.

Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended.

Detection method: Dual AP/HRP Detection Polymer System.

Working dilution: Ready-to-use.

Positive Control: Sample known to contain AMACR, p63, and HMW CK protein.

**Localization:** Cytoplasmic/Nuclear.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** Zeta's Prostate Dual Stain Cocktail is a dual stain cocktail that provides AMACR (red) detected by one chromogen and HMW CK and p63 (both brown) detected by a second chromogen.

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 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.

Cytokeratin 34βE12 antibody recognizes cytokeratin 1, 5, 10, and 14 (MW 68kDa, 58kDa, 56.5kDa, and 50kDa), and provides a specific marker useful in differential identification of squamous carcinomas from adenocarcinomas and differential diagnosis of benign and malignant tumors of prostatic gland. In normal cells, it labels squamous, ductal and other complex epithelia. Cytokeratin, HMW reacts with benign small-acinar lesions of the prostate but does not react with hepatocytes, pancreatic acinar cells, proximal renal tubes or endometrial glands.

**Supplied As:** Purified antibodies diluted in Tris-HCl buffer containing stabilizing protein and <0.1% ProClin.

### 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.

**REF** Z2836MRP-R (7ml Pre-dil)



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