

# PSA (ZR232)

## Rabbit Monoclonal Antibody

**Specificity:** Humans

**Immunogen:** Recombinant fragment (around aa150-250) of human KLK3 protein (exact sequence is proprietary)

**Ig Class:** IgG

**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months 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 Ig detection system. Working dilution: 1:100-200. Positive Control: Prostate. Localization: Cytoplasmic. Intended Use: Research Use Only (RUO).

**Description:** Prostate-specific antigen (PSA) is a single-chain glycoprotein of 237 amino acids containing approximately 8% carbohydrate. It is a serine protease produced almost exclusively by prostatic epithelial cells. Immunohistochemically, PSA is expressed in the highly specialized apically-superficial layer of female and male secretory cells of the prostate gland and is readily demonstrated in adenocarcinomas of the prostate in about 99% of the cases. There is a correlation between malignancy grade and intensity of staining, with high-grade carcinomas displaying a weaker expression. About 1% of poorly differentiated carcinomas have been negative for PSA. Due to the high specificity of PSA for prostatic glandular epithelium, it is very useful in identifying prostatic carcinoma in the prostate and the adjacent organs often affected by epithelial malignancies, i.e., rectum and urinary bladder. PSA may be used in a panel with NKX3.1 and Prostein, which are at least as sensitive and slightly more specific than PSA.

**Intended Use:** This antibody is intended for research use only (RUO). PSA (ZR232) monospecific Rabbit Monoclonal primary antibody is intended for laboratory use in the detection of PSA in formalin-fixed, paraffin-embedded tissue by immunohistochemical (IHC) staining. The staining results should be interpreted by qualified pathologists in conjunction with the patient's relevant clinical history.

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

### References:

1. Polascik TJ, et al. J Urol. 1999; 162:293.
2. Alanen KA, et al. Path Res Pract. 1996; 192:233-237.
3. Varma M, et al. Histopathology. 2005; 47:1-16

REF

Z2710RL/ Z2710RS/ Z2710RT/ Z2710RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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C

(concentrate)

DIL

(dilution)

S

(supernatant)

S

(predilute)