p63 (4A4)

Mouse Monoclonal Antibody

Specificity: Humans

Immunogen: Recombinant full-length human p63 protein

Ig Class: IgG2a /κ

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 Ig detection system. *Working dilution: 1:100-200. Positive Control:* Skin, prostate. *Localization:* Nuclear. *Intended Use*: Research Use Only (RUO).

Description: p63 is a homolog of the tumor suppressor p53. It is identified in basal cells in the epithelial layers of a variety of tissues, including epidermis, cervix, urothelium, breast and prostate. p63 was detected in nuclei of the basal epithelium in normal prostate glands; however, it was not expressed in malignant tumors of the prostate. As a result, p63 has been reported as a useful marker for differentiating benign from malignant lesions in the prostate, particularly when used in combination with markers of high molecular weight cytokeratins and the prostate-specific marker AMACR (P504S). p63 has also been shown to be a sensitive marker for lung squamous cell carcinomas (SqCC), with a sensitivity of ~90%. Specificity for lung SqCC, vs. lung adenocarcinoma (LADC), is approximately 80%. In breast tissue, p63 has been identified in myoepithelial cells of normal ducts.

Intended Use: This antibody is intended for research use only (RUO). p63 (4A4) mouse monoclonal primary antibody is intended for laboratory use in the detection of p63 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% sodium azide.

References:

1. Terry J, et al. *Am J Surg Pathol*. 2010; 34:1805-11.
2. Signoretti S, et al. *Am J Pathol*. 2000; 157:1769-75.

REF **Z2003ML-R/ Z2003MS-R/ Z2003MT-R/ Z2003MP-R (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)**

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C (concentrate) DIL (dilution) S (supernatant) S (predilute)

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