

# p63 (4A4)

## Mouse Monoclonal Antibody

**Specificity:** Humans

**Immunogen:** Recombinant full-length human p63 protein

**Ig Class:** IgG2a /k

**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% ProClin.

### 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)