## 36-3426: Anti-p63 (Squamous, Basal \& Myoepithelial Cell Marker) Monoclonal Antibody(Clone: TP63/2428)

| Clonality : | Monoclonal |
| :---: | :---: |
| Clone Name: | TP63/2428 |
| Application : | FACS, IHC |
| Reactivity : | Human |
| Gene: | TP63 |
| Gene ID : | 8626 |
| Uniprot ID : | Q9H3D4 |
| Alternative Name : | Amplified in squamous cell carcinoma (AIS); Chronic ulcerative stomatitis protein (CUSP); EEC3; Keratinocyte transcription factor KET; LMS; NBP; p40; P51/P63; p53 like transcription factor; p53-related protein p63; RHS; SHFM4; TAp63alpha; TP53CP; TP53L; TP63; TP73; TP73L; Transformation-related protein 63; Trp53rp1; Trp6;3; Tumor protein 63; Tumor protein p53like; tumor protein p73-like |
| Isotype: | Mouse IgG2b, kappa |
| Immunogen Informa | Recombinant full-length human p63 protein |

## 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 $\sim 90 \%$. Specificity for lung SqCC, vs. lung adenocarcinoma (LADC), is approximately $80 \%$. In breast tissue, p63 has been identified in myoepithelial cells of normal ducts.

## Product Info

## Amount :

$20 \mu \mathrm{~g} / 100 \mu \mathrm{~g}$
Content :

## Storage condition :

$200 \mu \mathrm{~g} / \mathrm{ml}$ of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with $0.05 \%$ BSA \& $0.05 \%$ azide. Also available WITHOUT BSA \& azide at $1.0 \mathrm{mg} / \mathrm{ml}$.

Antibody with azide - store at 2 to $8^{\circ} \mathrm{C}$. Antibody without azide - store at -20 to $-80^{\circ} \mathrm{C}$. Antibody is stable for 24 months. Non-hazardous.

## Application Note

Flow Cytometry (1-2ug/million cells);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0 , for 45 min at 95 \&degC followed by cooling at RT for 20 minutes),


Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with p63 Mouse Monoclonal Antibody (TP63/2428).

Fig. 2: Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with p63 Mouse Monoclonal Antibody (TP63/2428).

Fig. 3: SDS-PAGE Analysis Purified p63 Mouse Monoclonal Antibody (TP63/2428). Confirmation of Integrity and Purity of Antibody.

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using p63 Mouse Monoclonal Antibody (TP63/2428). Z- and S- Score: The Zscore represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S -score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein $X$ with a $Z$-score of 43 and to protein $Y$ with a $Z$-score of 14 , then the S -score for the binding of that MAb to protein $X$ is equal to 29 .

