

## P40 Clone ZR8

### Instructions for Use

#### Specification:

p63 consists of two major isoforms -TAp63 and  $\Delta$ Np63. These isoforms differ in the structure of the N-terminal domains. The TAp63 isoform (identified by anti-p63 antibody) contains a transactivation-competent 'TA' domain with homology to p53, which regulates the expression of the growth-inhibitor genes. In contrast,  $\Delta$ Np63 isoform (identified by anti-p40 antibody) contains an alternative transcriptionally-inactive ' $\Delta$ N' domain, which antagonizes the activity of TAp63 and p53. The p40 (clone ZR8) recognizes exclusively  $\Delta$ Np63 but not TAp63. p40 is a squamous cell carcinoma 'specific' antibody. It reacts with the vast majority of cases of squamous cell carcinomas of various origins, but not with adenocarcinomas. It is particularly useful in differentiating lung squamous cell carcinoma from lung adenocarcinoma. p40 antibody can also be used as an alternative basal cell/myoepithelial cell marker, which has similar sensitivity and specificity as that of p63 antibody. Therefore, p40 antibody may also be used as an alternative immunohistochemical marker for determining prostate adenocarcinoma vs. benign prostate glands and for determining breast intraductal carcinoma v.s. invasive breast ductal carcinoma.

#### Availability:

Catalog No.	Contents	Volume
ILM0022-C01	P40	0,1 ml concentrate
ILM0022-C05	P40	0,5 ml concentrate
ILM0022-C1	P40	1,0 ml concentrate

**Intended use:** For Research Use Only

**Reactivity:** Human

**Clone:** ZR8

**Species of origin:** Rabbit

**Isotype:** IgG

**Control Tissue:** lung squamous cell carcinoma

**Staining:** Nuclear

**Immunogen:** Synthesized polypeptides from N-terminal domain of p63

**Presentation:** Purified antibody from in 0.2% BSA and 15mM sodium azide.

#### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:100 - 1:200)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-rabbit secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.