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## NKX3.1 (Clone ZM95)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others not tested

**Immunogen:** Recombinant fragment (around aa 92-224) of human NKX3.1 protein

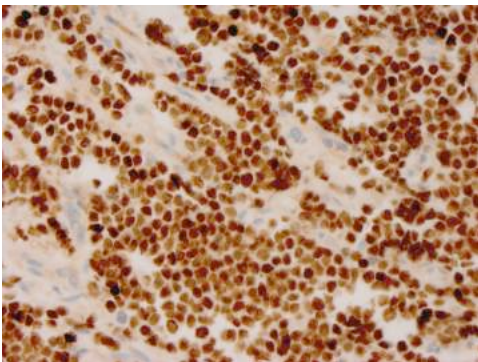
**Ig Class:** IgG2b/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**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. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

**Description:** NKX3.1 is a prostate specific gene encoding a transcription factor that plays an important role in normal prostate development and carcinogenesis. It is a prostatic tumor suppressor gene located on chromosome 8p21.2, which frequently undergoes a loss of heterozygosity. NKX3.1 expression is highly restricted in prostate epithelial cells and therefore can be used as a diagnostic biomarker for prostate cancer and other metastatic lesions of prostatic origin. Furthermore, NKX3.1 shows better sensitivity than Prostate Specific Antigen (PSA) for identifying metastatic prostatic adenocarcinoma. This suggests that immunohistochemical staining of NKX3.1, along with other prostate-restricted markers, may be valuable for the definitive determination of prostatic origin in poorly differentiated metastatic carcinomas.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



#### References:

1. Gurel B, et al. *Am J Surg Pathol.* 2010; 34:1097-105.
2. Chuang AY, et al. *Am J Surg Pathol.* 2007; 31:1246-55.

*Formalin-fixed, paraffin-embedded prostate adenocarcinoma stained with anti-NKX3.1 antibody using peroxidase-conjugate and DAB chromogen. Note nuclear staining of tumor cells*

Cat. #Z2395 (1.0 ml)

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