

NKX3.1 (Clone ZR222)

Rabbit Monoclonal Antibody

Specificity: Human. Others not tested

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

Ig Class: IgG

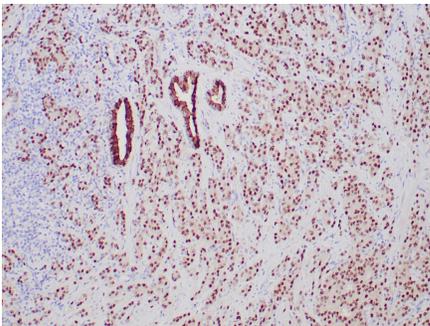
Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

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:* Nucleus.

Description: NKX3.1 is a prostate-specific gene encoding a transcription factor essential 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.

Intended Use: This antibody is intended for in vitro diagnostic (IVD) use. NKX3.1 (clone ZR222) rabbit monoclonal primary antibody is intended for laboratory use in the detection of NKX3.1 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 proclin.



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

REF Z2707(1.0 ml) (Concentrate)