

Nkx3.1 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50322

Clone# BP6299

Predicted Molecular Wt: 26kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q99801

Background:

NKX3.1 is a homeobox transcription factor that in mammals plays a defining role in embryonic prostate morphogenesis. The expression of mammalian NKX3.1 is androgen-dependent, restricted primarily to developing and mature prostate epithelium, and is frequently reduced or lost in prostate cancer. The human NKX3.1 gene is located on chromosome 8p21.2, within a region that shows loss of heterozygosity (LOH) in >50% of prostate cancer cases. Allelic loss at the NKX3.1 locus is also common in high grade Prostate Intraepithelial Neoplasia (PIN), thought to be a putative precursor lesion to invasive prostate adenocarcinomas, suggesting that LOH at the NKX3.1 locus is a critical early step in prostate cancer development. Notably, the remaining NKX3.1 allele is intact in the majority of LOH cases, leading to the suggestion that NKX3.1 functions as a haploinsufficient tumor suppressor.

Due to its highly restricted expression in prostate epithelial cells, NKX3.1 has been suggested as a diagnostic marker of prostate carcinoma, and may have additional utility as a biomarker of metastatic lesions originating in the prostate.

Subcellular location:

Nucleus

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

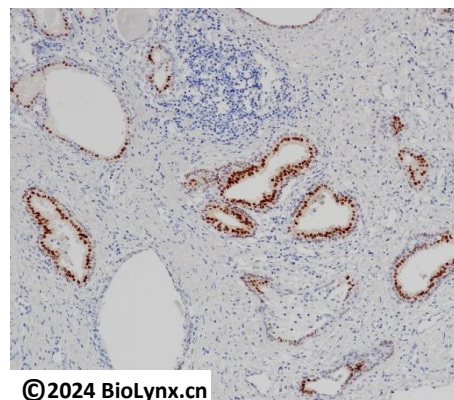
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Bethel, C.R. et al. (2006) Cancer Res 66, 10683-90.
- Epstein, J.I. et al. (2014) Am J Surg Pathol 38, e6-e19.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of prostate gland labelling Nkx3.1 with BP6229.

Product QC'd by:



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