NKX3.1 (NKX3.1/3348)

Format	Catalog No.	Pack size	Dilution
Concentrated	G4824 A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	G4824 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Mouse

IMMUNOGEN: Recombinant fragment (around aa 92-224) of humanNKX3.1 protein (exact sequence is proprietary)

CLONE: NKX3,1/3348

ISOTYPE: IgG2b/Kappa

FORMAT: This antibody has been pre-titered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

INTENDED USE: For Research Use Only.

BACKGROUND: A transcription factor that is essential for both normal prostate development and carcinogenesis is encoded by the prostate-specific gene NKX3.1. On chromosome 8p21.2, there is a prostatic tumour suppressor gene that often loses its heterozygosity. Prostate cancer and other metastatic lesions of prostatic origin can be diagnosed using NKX3.1, as its expression is highly confined in prostate epithelial cells. Additionally, when it comes to detecting metastatic prostatic cancer, NKX3.1 exhibits higher sensitivity than prostate specific antigen (PSA). This implies that in weakly differentiated metastatic carcinomas, NKX3.1 immunohistochemical staining, in conjunction with other prostate-restricted markers, may be useful for conclusively identifying the prostatic origin.

SPECIES REACTIVITY : Human

POSITIVE CONTROL : Highly expressed in the prostate and at a lower level in the testis.

CELLULAR LOCALIZATION : Nucleus

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMEDNED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
  - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml
- **Storage Conditions:** 1–3 µg/ml
  - With azide: 2–8°C
  - Without azide: –20 to –80°C
- **Stability:** 24 months

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LIMITATIONS AND USES:

1. Contains 0.05% sodium azide – handle with care
2. Avoid skin and mucosal contact
3. Not intended for diagnostic or therapeutic use

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com