

Product Data Sheet

No. #

Anti-murine Nkx3.1 IgG Affinity Pure, 30 µg

Catalog Number: 0315

Product Description

Anti-mouse Nkx3.1 antibody is the IgG fraction from rabbit anti-sera generated by immunizing the animals with purified recombinant mouse Nkx3.1 protein. To improve the specificity of the antibody, only the N-terminal domain of mouse Nkx3.1 was produced as immunogen. The IgG fraction was prepared by protein A affinity chromatography. IgG specific to mouse Nkx3.1 was further purified using an affinity matrix produced by cross-linking the immunogen to agarose. The antibody is dissolved in PBS containing 1 mg/ml BSA.

Mouse nkx3.1 is an androgen-regulated homeodomain gene with the expression of Nkx3.1 protein predominantly localized to the prostate epithelial cells (Bieberich et al., 1996).

Instructions for Use

For immunohistochemistry, dilute the antibody 3,000 fold and incubate overnight. The concentration of antibody needed for optimal results may vary and should be verified. For formalin-fixed paraffin embedded tissues, perform antigen retrieval at 60 °C in the presence of EDTA.

The antibody has not yet been validated for Western analysis.

For other types of immunoassays, it is recommended that the antibody be titrated to determine the optimal concentration.

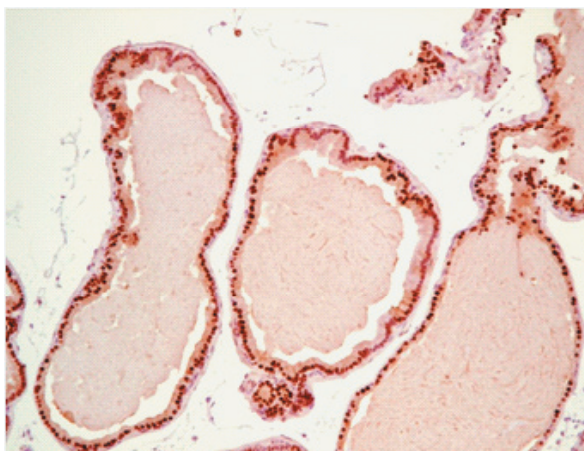


Figure shows immunohistochemistry staining of mouse prostate using the anti-murine Nkx3.1 antibody.



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Material Safety Data

FOR RESEARCH USE ONLY. NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. Do not ingest, swallow or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. For complete safety information see full Material Safety Data Sheet.

Storage Conditions

Antibody concentration is 0.3 mg/ml, in 1 mg/ml BSA, 1x PBS pH 7.3. For long term storage, add 100 µl of 80% glycerol and store at -20 °C.

Store reconstituted product at 4°C.

References

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- Bethel, C. R. et al. 2006. Decreased NKX3.1 protein expression in focal prostatic atrophy, prostatic intraepithelial neoplasia and adenocarcinoma: association with Gleason score and chromosome 8p deletion. *Cancer Res.* 66:10683-10690.
- Abate-Shen, C., Shen, M. M. and Gelmann, E. 2008. Integrating differentiation and cancer: the Nkx3.1 homeobox gene in prostate organogenesis and carcinogenesis. *Differentiation; research in biological diversity.* 76:717-727.
- Gurel, B. et al. 2010. NKX3.1 as a marker of prostatic origin in metastatic tumors. *Am. J. Surg. Pathol.* 34(8):1097-1105.
- Guan, B., Pungaliya, P. et al. 2008. Ubiquitination by TOPORS regulates the prostate tumor suppressor NKX3.1. *J. Biol. Chem.* 283(8):4834-4840.