10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Nkx3-1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP19312c

Specification

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P97436

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 18095

Other Names
Homeobox protein Nkx-31, Homeobox protein NK-3 homolog A, Nkx3-1, Nkx-31, Nkx3a

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Protein Information

Name Nkx3-1 {ECO:0000312|MGI:MGI:97352}

Function
Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor (By similarity). Plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate (PubMed:10215624). Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells (PubMed:12036903). Plays a role in the formation of minor salivary glands (particularly palatine and lingual glands) (PubMed:10906459).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

Tissue Location
Expressed mostly in the male urogenital tract, with highest expression in the epithelial cells lining the ducts of anterior, dorsolateral and ventral prostate and in the bulbourethral gland, and much lower in the seminal vesicle and the testis (PubMed:8943214, PubMed:9142502, PubMed:10215624). Expression in the prostate increases during sexual maturation and is

drastically reduced following castration. Expressed also in brain (hippocampus and external granular layer of the cerebral cortex), kidney (intralobular arteries), thymus and adrenal and salivary glands (PubMed:8943214, PubMed:9142502).

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Images

Mouse Nkx3-1 Antibody (Center) Blocking Peptide - Background

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Mouse Nkx3-1 Antibody (Center) Blocking Peptide - References

Khalili, M., et al. Am. J. Pathol. 176(5):2259-2268(2010)Guo, G., et al. Dev. Cell 18(4):675-685(2010)Thomsen, M.K., et al. Cancer Res. 70(3):979-987(2010)Iwata, T., et al. PLoS ONE 5 (2), E9427 (2010) :Sun, Q., et al. J. Biol. Chem. 284(47):32582-32590(2009)