

**Mouse Nkx3-1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19312c****Specification**

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**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:<a href="http://www.uniprot.org/citations/10215624" target="\_blank">10215624</a>). Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells (PubMed:<a href="http://www.uniprot.org/citations/12036903" target="\_blank">12036903</a>). Plays a role in the formation of minor salivary glands (particularly palatine and lingual glands) (PubMed:<a href="http://www.uniprot.org/citations/10906459" target="\_blank">10906459</a>).

**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**

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. Act as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells. Play a role in the formation of minor salivary glands (particularly palatine and lingual glands). Essential for appropriate differentiation and secretory function of the bulbourethral gland.

### **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)