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NKX3A Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1380a

Specification

NKX3A Antibody - Product Information

Application	**WB, IHC, FC**
Primary Accession	Q99801
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**26.3kDa KDa**

Description
Nkx3.1 is a transcription factor that may play an important role in regulating proliferation of glandular epithelium and in the formation of ducts in the prostate. It has been thought to be one of the target genes of the 8p21 loss of heterozygosity, common in prostate cancer. But neither disruption of the coding region of the gene, nor mutations have been found in prostate cancer.

Immunogen
Purified recombinant fragment of human NKX3A expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

NKX3A Antibody - Additional Information

Gene ID 4824

Other Names
Homeobox protein Nkx-3.1, Homeobox protein NK-3 homolog A, NKX3-1, NKX3.1, NKX3A

Dilution
WB~~1/500 - 1/2000
IHC~~1/500 - 1/2000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NKX3A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NKX3A Antibody - Protein Information

Name NKX3-1 (HGNC:7838)

Function
Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to inhibit proliferation and invasion activities of PC-3 prostate cancer cells.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:11137288}

Tissue Location
Highly expressed in the prostate and, at a lower level, in the testis.

NKX3A Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NKX3A Antibody - Images

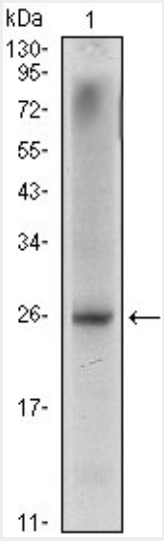

Figure 1: Western blot analysis using NKX3A mouse mAb against LNCaP (1) cell lysate.

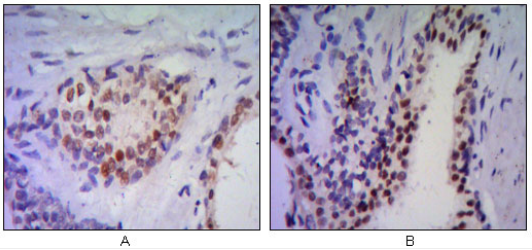

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Figure 2: Immunohistochemical analysis of paraffin-embedded human prostata tissues (A, B) using anti-NKX3A antibody with DAB staining.

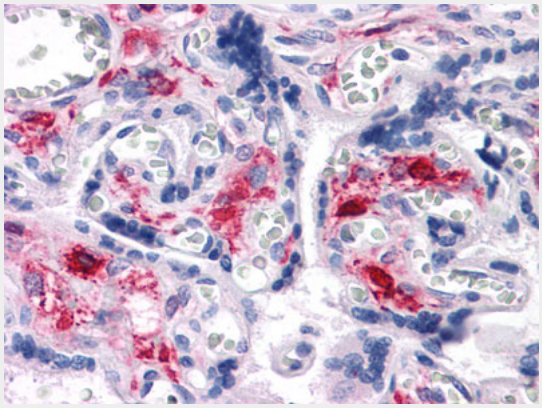

Figure 3: Immunohistochemical analysis of paraffin-embedded human Liver tissues using NKX3A mAb

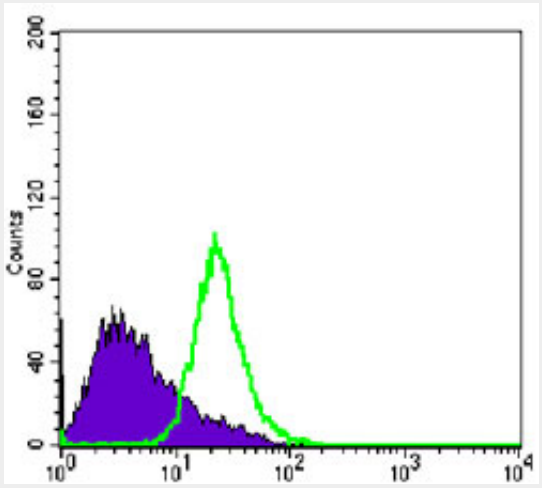

Figure 4: Flow cytometric analysis of PC-3 cells using anti-NKX3A mAb (green) and negative control (purple).

NKX3A Antibody - References

1. Exp Mol Med. 2006 Dec 31;38(6):625-33. 2. Exp Biol Med (Maywood). 2008 Mar;233(3):297-309. 3.Mol Biol Rep. 2010 Mar;37(3):1505-12.