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NKX3A Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1380a

Product Information

Application	WB, IHC, FC, E
Primary Accession	Q99801
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4H4
Isotype	IgG2b
Calculated MW	26350
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.

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 E~~N/A
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.

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.

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.

Images

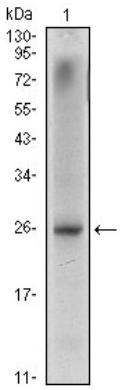


Figure 1: Western blot analysis using NKX3A mouse mAb against LNCaP (1) cell lysate.

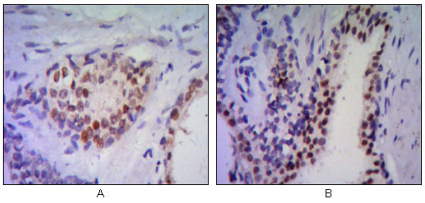


Figure 2: Immunohistochemical analysis of paraffin-embedded human prostata tissues (A, B) using anti-NKX3A antibody with DAB staining.

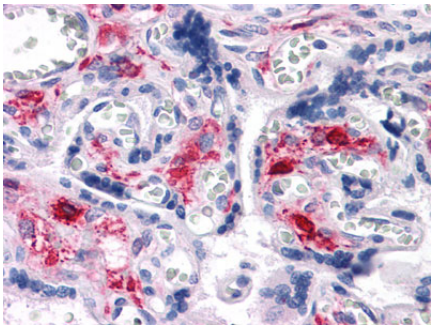
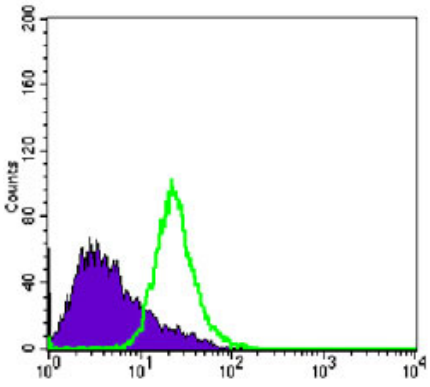


Figure 3: Immunohistochemical analysis of paraffin-embedded human Liver tissues using NKX3A mAb

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.