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NKX3-1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8996C

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99801
Other Accession	P97436
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23610
Calculated MW	26350
Antigen Region	3-1

Additional Information

Gene ID	4824
Other Names	Homeobox protein Nkx-31, Homeobox protein NK-3 homolog A, NKX3-1, NKX31, NKX3A
Target/Specificity	This NKX3-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-145 amino acids from the Central region of human NKX3-1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NKX3-1 Antibody (Center) 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.

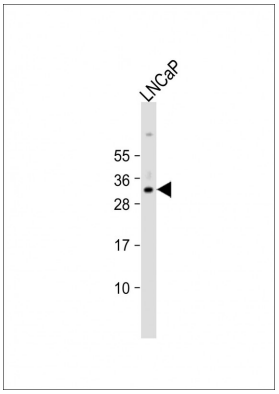
Background

NKX3-1 is a transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. It play an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. It 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.

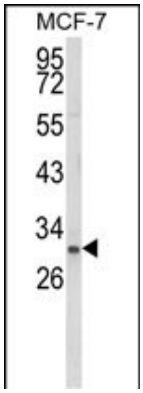
References

Voeller,H.J., et.al., Cancer Res. 57 (20), 4455-4459 (1997)

Images

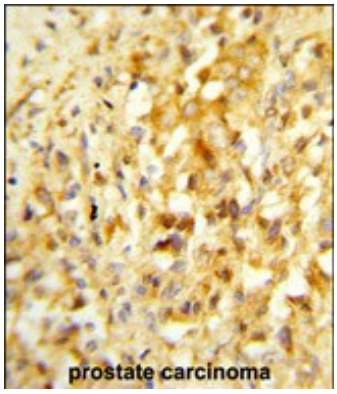


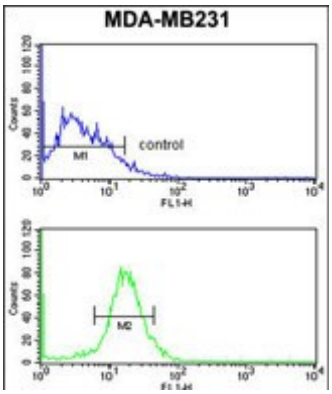
Anti-NKX3-1 Antibody (Center) at 1:8000 dilution + LNCaP whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of NKX3-1 Antibody (Center) (Cat. #AP8996c) in MCF-7 cell line lysates (35ug/lane). NKX3-1 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with NKX3-1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





NKX3-1 Antibody (Center) (Cat. #AP8996c) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.