10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

NKX3-1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8996C

Specification

NKX3-1 Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O99801
Other Accession	P97436
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	26350
Antigen Region	3-1

NKX3-1 Antibody (Center) - Additional Information

Gene ID 4824

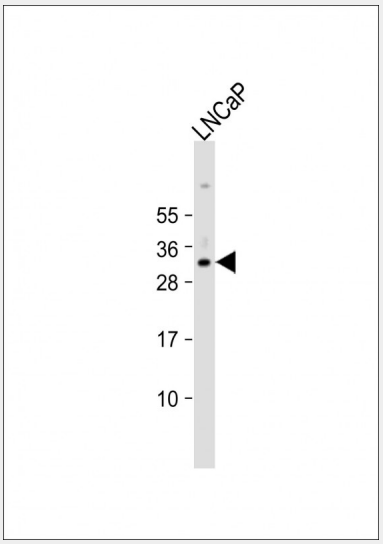
Other Names
Homeobox protein Nkx-31, Homeobox protein NK-3 homolog A, NKX3-1, NKX31, NKX3A

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.

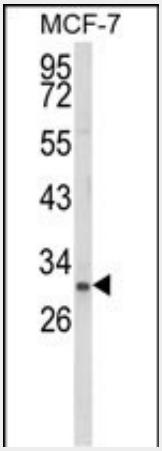
Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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.



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.

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Precautions
NKX3-1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NKX3-1 Antibody (Center) - Protein Information

Name NKX3-1

Synonyms NKX3.1, NKX3A

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.

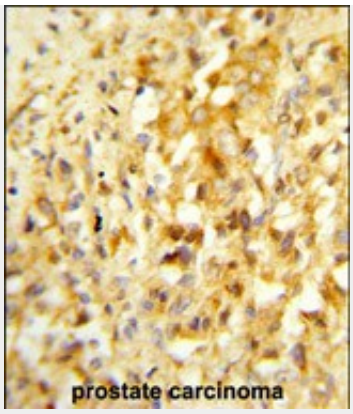
Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:11137288}

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

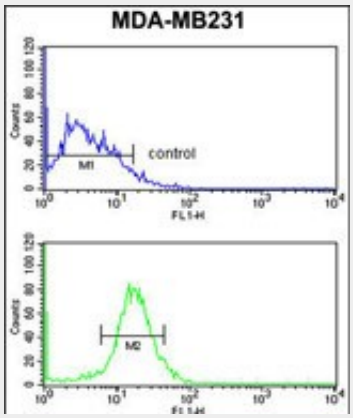
NKX3-1 Antibody (Center) - Protocols

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



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.

NKX3-1 Antibody (Center) - 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.

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NKX3-1 Antibody (Center) - References

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