10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-NKX3-1 Antibody

Catalog # AP51391

Product Information

Application	WB, IHC
Primary Accession	Q99801
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26350

Additional Information

Gene ID	4824
Other Names	NKX3.1; NKX3A; Homeobox protein Nkx-3.1; Homeobox protein NK-3 homolog A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NKX3-1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

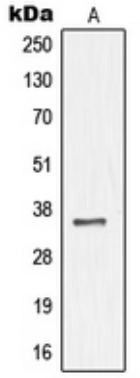
Protein Information

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.

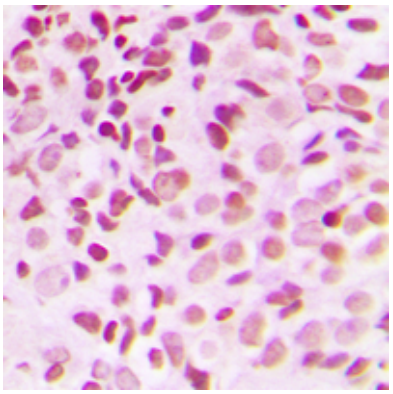
References

He W.-W.,et al.Genomics 43:69-77(1997).
Prescott J.L.,et al.Prostate 35:71-80(1998).
Korkmaz K.S.,et al.Gene 260:25-36(2000).
Chen H.,et al.Cancer Res. 62:338-340(2002).
Hosohata K.,et al.Mol. Cell. Biol. 23:7019-7029(2003).

Images



Western blot analysis of NKX3-1 expression in LNCaP (A) whole cell lysates. (Predicted band size: 26 kD; Observed band size: 35 kD)



Immunohistochemical analysis of NKX3-1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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