Product Name: **Nkx-3.1 Rabbit Polyclonal Antibody**
Catalog #: **APRab14736**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	38kDa

Antigen Information

Gene Name	NKX3-1
Alternative Names	NKX3-1; NKX3.1; NKX3A; Homeobox protein Nkx-3.1; Homeobox protein NK-3 homolog A
Gene ID	4824.0
SwissProt ID	Q99801
Immunogen	The antiserum was produced against synthesized peptide derived from human NKX3-1. AA range:1-50

Background

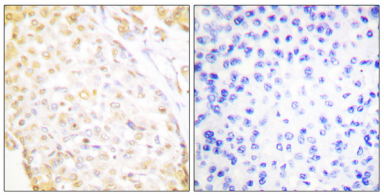
This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of

epithelial cell growth in prostate tissue. Aberrant expression of this gene is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jan 2012],alternative products:Additional isoforms seem to exist,disease:NKX3-1 has been thought to be one of the target gene 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.,function:Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Could play an important role in regulating proliferation of glandular epithelium and in the formation of ducts in prostate.,induction:By androgens and, in the LNCAP cell line, by estrogens. Androgenic control may be lost in prostate cancer cells during tumor progression from an androgen-dependent to an androgen-independent phase.,similarity:Belongs to the NK-3 homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,subunit:Interacts with serum response factor (SRF) (By similarity). Interacts with SPDEF. Interacts with WDR77.,tissue specificity:Highly expressed in the prostate and, at a lower level, in the testis.,

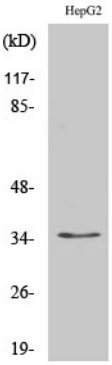
Research Area

Pathways in cancer;Prostate cancer;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using NKX3.1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Nkx-3.1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.