



NKX3.1 Rabbit mAb

Catalog No	YP-rAb-16899
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IF,ELISA
Gene Name	NKX3-1 NKX3.1 NKX3A
Protein Name	Homeobox protein Nkx-3.1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:500; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	NKX3-1 ; NKX3.1 ; NKX3A ; Homeobox protein Nkx-3.1 ; Homeobox protein NK-3 homolog A
Observed Band	35kD
Calculated Molecular Weight	26kD
Cell Pathway	Nucleus .
Tissue Specificity	Highly expressed in the prostate and, at a lower level, in the testis.
Function	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.,

Background

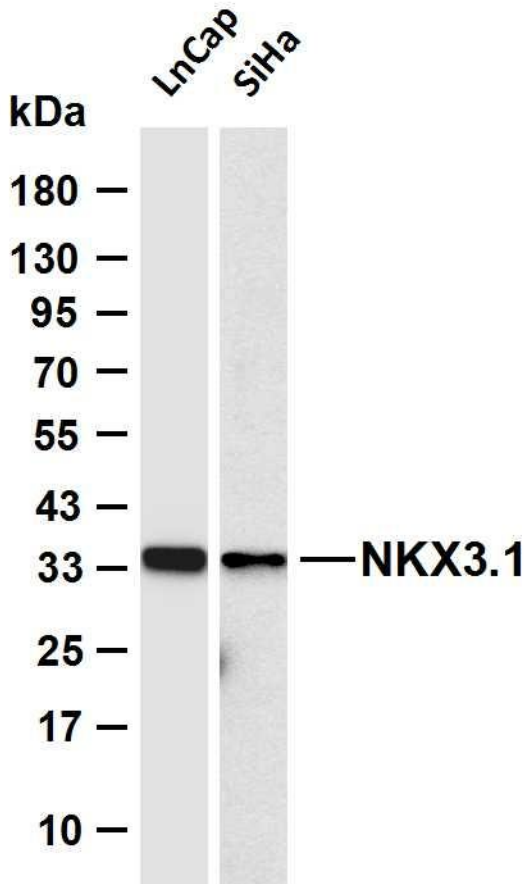
This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of this gene is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jan 2012],

matters needing attention

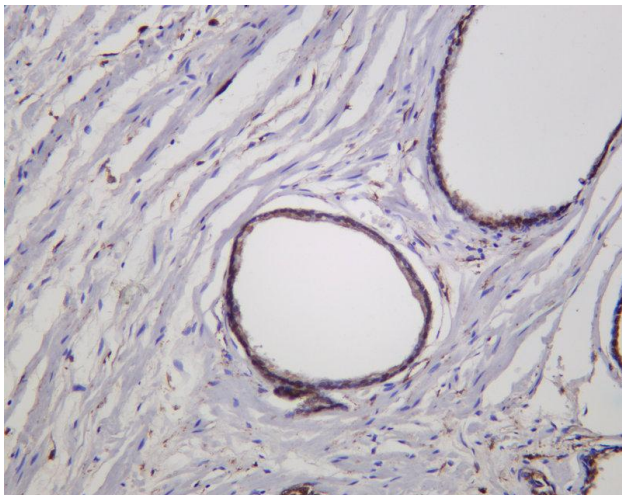
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NKX3.1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: LnCap Lane 2: SiHa Predicted band size: 26kDa Observed band size: 35kDa



Human prostate was stained with anti-NKX3.1 Rabbit antibody

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