



# Nkx-3.1 Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-15734
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;IHC;IF;FCM;ELISA
<b>Gene Name</b>	NKX3-1
<b>Protein Name</b>	Homeobox protein Nkx-3.1
<b>Immunogen</b>	Purified recombinant fragment of human Nkx-3.1 expressed in E. Coli.
<b>Specificity</b>	Nkx-3.1 Monoclonal Antibody detects endogenous levels of Nkx-3.1 protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	NKX3-1; NKX3.1; NKX3A; Homeobox protein Nkx-3.1; Homeobox protein NK-3 homolog A
<b>Observed Band</b>	
<b>Cell Pathway</b>	Nucleus .
<b>Tissue Specificity</b>	Highly expressed in the prostate and, at a lower level, in the testis.
<b>Function</b>	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 f
<b>Background</b>	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],

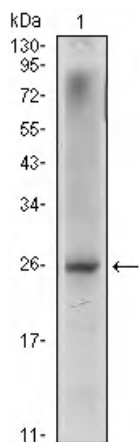
**matters needing attention**

Avoid repeated freezing and thawing!

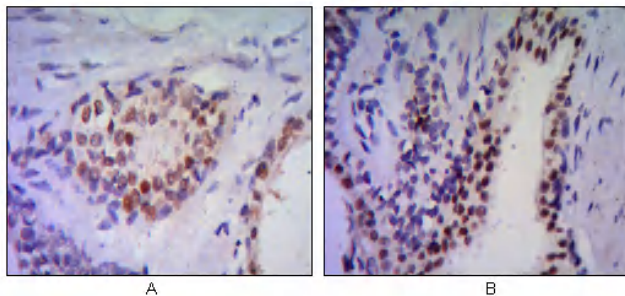
**Usage suggestions**

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

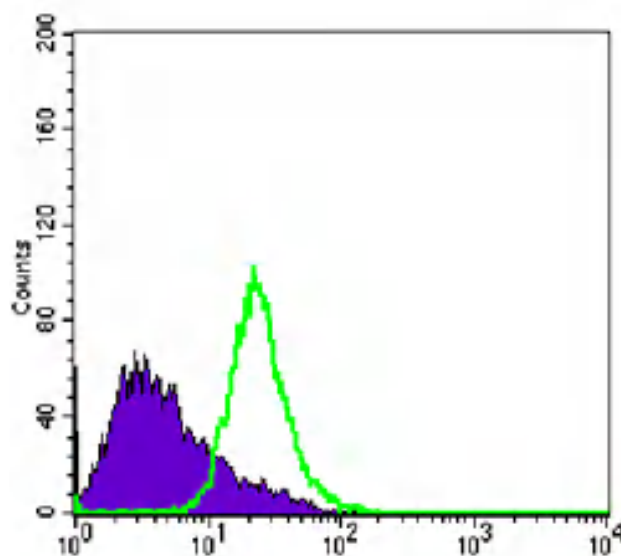
**Products Images**



Western Blot analysis using Nkx-3.1 Monoclonal Antibody against LNCaP (1) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human prostata tissues (A, B) with DAB staining using Nkx-3.1 Monoclonal Antibody.



Flow cytometric analysis of PC-3 cells using Nkx-3.1 Monoclonal Antibody (green) and negative control (purple).