

# NKX3-1 Polyclonal antibody

Catalog Number: 13069-1-AP

## Basic Information

<b>Catalog Number:</b> 13069-1-AP	<b>GenBank Accession Number:</b> BC074864	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 350 µg/ml	<b>GeneID (NCBI):</b> 4824	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:400-1:1600
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99801	
<b>Isotype:</b> IgG	<b>Full Name:</b> NK3 homeobox 1	
<b>Immunogen Catalog Number:</b> AG4070	<b>Calculated MW:</b> 234 aa, 26 kDa	
	<b>Observed MW:</b> 34-38 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : LNCaP cells, human testis tissue

IHC : human prostate cancer tissue,

## Background Information

NKX3-1, also named as NKX3.1 and NKX3A, belongs to the NK-3 homeobox family. It is a transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. NKX3-1 plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. It act as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to inhibit proliferation and invasion activities of PC-3 prostate cancer cells(PMID:19462257). The calculated molecular weight of NKX3-1 is 26 kDa, but modified NKX3-1 is about 32-35 kDa. (PMID: 18597829)

## Storage

### Storage:

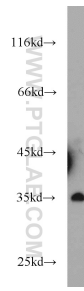
Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

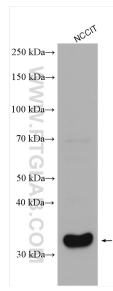
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

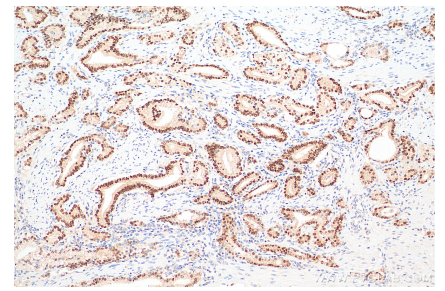
## Selected Validation Data



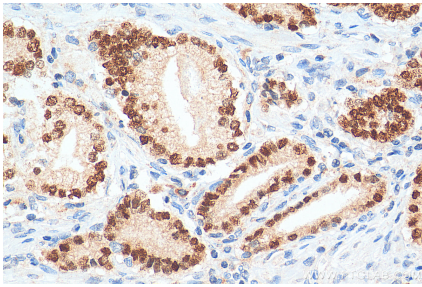
human testis tissue were subjected to SDS PAGE followed by western blot with 13069-1-AP (NKX3-1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



LNCaP cells were subjected to SDS PAGE followed by western blot with 13069-1-AP (NKX3-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 13069-1-AP (NKX3-1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 13069-1-AP (NKX3-1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).