

For Research Use Only

NKX3-1 Polyclonal antibody

Catalog Number: 13069-1-AP

2 Publications



Basic Information

Catalog Number: 13069-1-AP	GenBank Accession Number: BC074864	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4824	Recommended Dilutions: WB 1:500-1:2000 IHC 1:400-1:1600
Source: Rabbit	UNIPROT ID: Q99801	
Isotype: IgG	Full Name: NK3 homeobox 1	
Immunogen Catalog Number: AG4070	Calculated MW: 234 aa, 26 kDa	
	Observed MW: 34-38 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : LNCaP cells, human testis tissue IHC : human prostate cancer tissue,
Cited Applications: IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Han Zhang	39638850	Sci Rep	IHC
Weiran Feng	38585869	bioRxiv	IHC

Storage

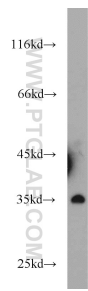
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

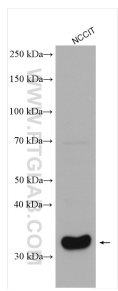
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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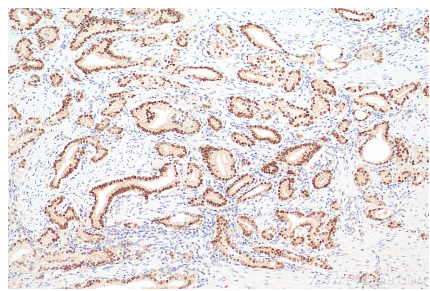
Selected Validation Data



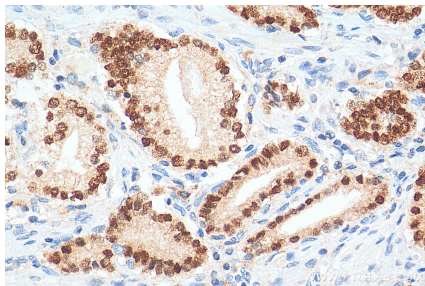
human testis tissue were subjected to SDS PAGE followed by western blot with 13069-1-AP (NKX3-1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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).