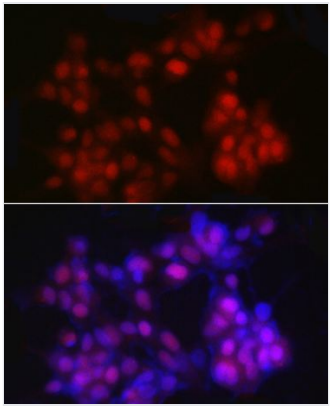
NKX3.1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NKX3.1, Polyclonal Antibody
Full Product Name	NKX3.1 Rabbit pAb
Product Gene Name	anti-NKX3.1 antibody
Product Synonym Names	BAPX2; NKX3; NKX3.1; NKX3A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	26,350 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (23536206..23540450, complement). Location: 8p21.2
OMIM	602041
3D Structure	ModBase 3D Structure for Q99801
Immunogen	Recombinant protein of human NKX3.1.
Research Area	Epigenetics & Nuclear Signaling Transcription Factors
Product Categories/Family for anti-NKX3.1 antibody	Catalog Antibodies; Polyclonal Antibodies; Primary Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NKX3.1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-NKX3.1 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-NKX3.1 antibody	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]
Other Notes	Small volumes of anti-NKX3.1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NKX3.1 purchase	MBS9144353 is an antibody targeting NKX3.1. Also known as NKX3.1 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-NKX3.1 antibody
Immunofluorescence analysis of LNCaP cells using NKX3.1 Rabbit pAb (MBS9144353) at dilution of 1:25 (40x lens). Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NKX3.1. It may not necessarily be applicable to this product.

NCBI GI #	373432628
NCBI GeneID	4824
NCBI Accession #	NP_001243268.1
UniProt Primary Accession #	Q99801
UniProt Secondary Accession #	O15465; Q9H2P4; Q9H2P5; Q9H2P6; Q9H2P7; Q9HBG0
UniProt Related Accession #	Q99801
GenBank Nucleotide #	NM_001256339.1
NCBI Official Full Name	homeobox protein Nkx-3.1 isoform 2
NCBI Official Synonym Full Names	NK3 homeobox 1
NCBI Official Symbol	NKX3-1
NCBI Official Synonym Symbols	NKX3; BAPX2; NKX3A; NKX3.1
UniProt Protein Name	Homeobox protein Nkx-3.1
UniProt Synonym Protein Names	Homeobox protein NK-3 homolog A
UniProt Gene Name	NKX3-1
UniProt Synonym Gene Names	NKX3.1; NKX3A
UniProt Entry Name	NKX31_HUMAN
NCBI Protein Information	homeobox protein Nkx-3.1; NK homeobox, family 3, A; homeobox protein NK-3 homolog A; NK3 transcription factor homolog A; NK3 transcription factor related, locus 1

UniProt Comments for NKX3.1	NKX3-1: Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Play an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. 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. Interacts with serum response factor (SRF). Interacts with SPDEF. Interacts with WDR77. Interacts with TOPORS which polyubiquitinates NKX3-1 and induces its proteasomal degradation. 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. Highly expressed in the prostate and, at a lower level, in the testis. Belongs to the NK-3 homeobox family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Tumor suppressor; Transcription factor Chromosomal Location of Human Ortholog: 8p21.2 Cellular Component: intracellular; nucleus Molecular Function: androgen receptor activity; protein binding; estrogen receptor activity; protein self-association; sequence-specific DNA binding; histone deacetylase binding; estrogen receptor binding; caspase activator activity; transcription factor binding; protein kinase activator activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; salivary gland development; positive regulation of transcription, DNA-dependent; multicellular organismal development; heart development; negative regulation of insulin-like growth factor receptor signaling pathway; positive regulation of caspase activity; positive regulation of mitotic cell cycle; negative regulation of cell proliferation; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; protein kinase B signaling cascade; negative regulation of mitotic cell cycle; negative regulation of epithelial cell proliferation; caspase activation; somitogenesis; pharyngeal system development; male gonad development; response to testosterone stimulus; positive regulation of phosphoinositide 3-kinase cascade; branching morphogenesis of a tube; positive regulation of protein kinase activity; positive regulation of cell division; androgen receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling; positive regulation of protein amino acid phosphorylation; negative regulation of transcription, DNA-dependent; metanephros development
Research Articles on NKX3.1	**1.** Transcriptional activation of prostate specific homeobox gene NKX3-1 in subsets of T-cell lymphoblastic leukemia (T-ALL).
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