

Recombinant Human NKX3-1, His-tagged

Cat. No. NKX3-1-7100H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NKX3-1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-234aa
Description	NKX3-1 is a homeobox-containing transcription factor, which binds preferentially the consensus sequence 5"-TAAGT[AG]-3" and can behave as a transcriptional repressor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of NKX3-1 is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol
Molecular Mass	28.7kDa (257aa)
AA Sequence	MGSSHHHHH SSGLVPRGSH MGSMLRVPEP RPGEAKAEGA APPTPSKPLT SFLIQDILRD GAQRQGGRTS SQRQRDPEPE PEPEPEGGRSRAGAQNQDLS TGPRAAPEEA ETLAETEPER HLGSYLLDSE NTSGALPRLP QTPKQPQKRS RAAFSHTQVI ELERKFHQK YLSAPER AHL AKNLKLTETQ VKIWFQNRRY KTKRKQLSSE LGDLEKHSSL PALKEEAFSR ASLVSVYNSY PYPYLYCVG SWSPAFW

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Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	NKX3-1 NK3 homeobox 1 [Homo sapiens]
Official Symbol	NKX3-1
Synonyms	NKX3-1; NK3 homeobox 1; NK homeobox (Drosophila), family 3, A , NK3 transcription factor related, locus 1 (Drosophila) , NKX3A; homeobox protein Nkx-3.1; BAPX2; NKX3.1; NK homeobox, family 3, A; homeobox protein NK-3 homolog A; NK3 transcription factor homolog A; NK3 transcription factor related, locus 1; NKX3; NKX3A;
Gene ID	4824
mRNA Refseq	NM_001256339
Protein Refseq	NP_001243268
MIM	602041
UniProt ID	Q99801

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Chromosome Location	8p21.2
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem; SIDS Susceptibility Pathways, organism-specific biosystem;
Function	androgen receptor activity; core promoter binding; contributes_to cysteine-type endopeptidase activator activity involved in apoptotic process; estrogen receptor activity; estrogen receptor binding; histone deacetylase binding; protein binding; protein binding transcription factor activity; protein kinase activator activity; protein self-association; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; transcription regulatory region sequence-specific DNA binding;