

Recombinant Human NKX3-1

Cat. No. NKX3-1-28096TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Nkx3.1 with N terminal proprietary tag, 37.73kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	The homeodomain-containing transcription factor NKX3-1 is a putative prostate tumor suppressor that is expressed in a largely prostate-specific and androgen-regulated manner. Loss of NKX3-1 protein expression is a common finding in human prostate carcinomas and prostatic intraepithelial neoplasia.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Highly expressed in the prostate and, at a lower level, in the testis.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	GSYLLDSENTSGALPRLPQTPKQPQKRSRAAFSHTQVIEL ERKFESHQKYL SAPERA HLAKNLKLTETQVKIWFQNRRYKT KRKQLSSELGDLEKHSSLPALKEEAFSRAS
Sequence Similarities	Belongs to the NK-3 homeobox family.Contains 1 homeobox DNA-binding domain.
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;
Gene ID	4824
mRNA Refseq	NM_006167
Protein Refseq	NP_006158
MIM	602041
Uniprot ID	Q99801
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

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cancer, conserved 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;

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