

# Recombinant human NKX3.1 protein

Catalog Number: ATGP1882

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-234aa

### UniProt No.

Q99801

### NCBI Accession No.

NP\_006158

### Alternative Names

Homeobox protein Nkx-3.1, BAPX2, NKX3, NKX3.1, NKX3A, NKX3-1

## PRODUCT SPECIFICATION

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### Molecular Weight

28.7 kDa (257aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human NKX3-1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

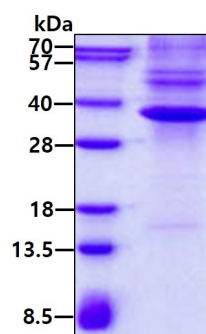
<MGSSHHHHHH SSGLVPRGSH MGS>MLRVPEP RPGEAKAEGA APPTPSKPLT SFLIQDILRD GAQRQGGRTS  
SQRQRDPEPE PEPEPEGGRS RAGAQNQQLS TGPRAAPEEA ETLAETEPER HLGSYLLDSE NTSGALPRLP QTPKQPQKRS  
RAAFSHTQVI ELERKFSHQK YLSAPER AHL AKNLKLTETQ VKIWFQNRRY KTKRKQLSSE LGDLEKHSSL PALKEEAFSR  
ASLVSVYNSY PYPYLYCVG SWSPAFW

## General References

Anderson,P.D., et al. (2012) . Clin. Invest. 122 (5), 1907-1919  
Tan,P.Y., et al. (2012) Mol. Cell. Biol. 32 (2), 399-414

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.