

## Anti-NKX3A Antibody (1T251)

## Product Details

Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 26 kDa.
Clone:	1T251
Purification:	ProA affinity purified

## Applications

Application:	FCM,IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200; FCM: 1:100-200

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q99801
Synonyms:	NK3 transcription factor related locus 1;Nkx 3.1;NKX31_HUMAN;NK3 homeobox 1;NK3 transcription factor homolog A;Nkx3-1;NKX 3A;Homeobox protein Nkx-3.1;Homeobox protein NK-3 homolog A;Nkx3.1, mouse, homolog of;NKX3;BAPX 2;NK homeobox, family 3, member A; BAPX2;NKX 3;NKX3.1;NK homeobox (Drosophila) family 3 A;NKX3 1;Homeobox protein Nkx 3.1; NK homeobox family 3 A;Homeobox protein Nkx3.1

## Research Background

The homeobox gene Nkx-3.1 is the human homolog of Drosophila bagpipe, which, in conjunction with tinman, determines cell fate in the dorsal mesoderm. In mammalian species, Nkx-3.1 is predominantly expressed in prostate, and it regulates prostate development in response to sonic hedgehog (Shh) signaling by exerting growth-suppressive and differentiating effects on prostatic epithelium. Nkx-3.1 is also expressed at lower levels in other tissues, including the heart and gut, in a Shh independent manner, where it plays a role in regulating proliferation of glandular epithelium and in the formation of ducts in prostate and minor salivary glands. Nkx-3.1 preferentially binds the TAAGTA sequence, which has not been reported for any other NK class homeoprotein. The human Nkx-3.1 gene is located on chromosome 8q21, which frequently undergoes a loss of heterozygosity, and although Nkx-3.1 is not a tumor suppressor gene, it may be a useful marker for benign and malignant prostate epithelium.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481