



# **Nkx3.1 (Nkx-3.1, BAPX2, Homeobox protein Nkx3.1, Homeobox Protein Nkx-3.1, NK Homeobox (Drosophila) Family 3A, NK3 Transcription Factor Homolog A, NK3 Transcription Factor Related Locus 1, NKX3, NKX-3, NKX3-1, NKX3A)**

## **Catalog number**

N2850-30K

## **Supplier**

United States Biological

Nkx3.1 is a transcription factor that may play an important role in regulating proliferation of glandular epithelium and in the formation of ducts in the prostate. It has been thought to be one of the target genes of the 8p21 loss of heterozygosity, common in prostate cancer. But neither disruption of the coding region of the gene, nor mutations have been found in prostate cancer.

## **Applications**

Suitable for use in Western Blot and Immunohistochemistry. Other applications not tested.

## **Recommended Dilution**

Western Blot: 2ug/ml. Distinct band at ~26kD  
Optimal dilutions to be determined by the researcher.

## **Cellular Localization**

Nuclear

## **Positive Control**

Mouse testis tissue lysate

## **Storage and Stability**

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot Store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## **Immunogen**

Human Nkx3.1 full-length protein produced in bacteria as a hexahistidine-tagged protein.

## **Formulation**

Supplied as a liquid in PBS, pH 7.4 and 0.09% sodium azide.

## **Purity**

Purified by Protein G affinity chromatography.

## **Specificity**



Tested against and reacts with mouse Nkx3.1. Expected to react with human protein (LNCAP extracts).

**Product Type**

Mab

**Source**

human

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

IHC WB

**Crossreactivity**

Hu Mo

**Storage**

-20°C

**Reference**

1. Kim, MJ, et al. Cooperativity of Nkx3.1 and Pten loss of function in a mouse model of prostate carcinogenesis. PNAS. 99(5): 2884-2889 (2002)
2. Gao, H., et al . A critical role for p27kip1 gene dosage in a mouse model of prostate carcinogenesis. PNAS. 101(49): 17204-17209 (2004)