

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                 |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse NKX3.1 in Western blots.                                                |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                  |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                             |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant mouse NKX3.1<br>Met1-Pro124<br>Accession # P97436 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm       |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                          |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                       |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Nkx3.1 (Homeobox protein NK-3 homolog A) is a 38 kDa member of the NK-3 homeobox family of transcription factors. It is expressed in mouse palatine and prostatic epithelium, and appears to be regulated by both testosterone and estrogen. Nkx3.1 apparently promotes prostate gland development, and acts as a tumor-suppressor/transcriptional repressor by interacting with HDAC-1, potentially inducing IGFBP-3 secretion, and increasing p53 acetylation and half-life. Mouse Nkx3.1 is 237 amino acids (aa) in length. It contains a DNA-binding homeodomain (aa 125-184) and undergoes ubiquitination at multiple sites. Over aa 1-124, mousen Nkx3.1 shares 77% and 48% aa identity with rat and human NKX3.1, respectively.

## PRODUCT SPECIFIC NOTICES

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