

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse NKX3.1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) NKX3.1 or rhNKX6.1 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 738907
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse NKX3.1 Met1-Pro124 (predicted) Accession # P97436
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	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.

Immunocytochemistry 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, mouse NKX3.1 shares 77% and 48% aa identity with rat and human NKX3.1, respectively.

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