Mouse NKX3.1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6475

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse NKX3.1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse NKX3.1 Met1-Pro124 Accession # P97436
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

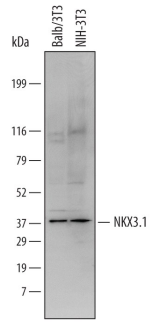
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Mouse NKX3.1 by Western Blot. Western blot shows lysates of Balb/3T3 mouse embryonic fibroblast cell line and NIH-3T3 mouse embryonic fibroblast cell line. PVDF Membrane was probed with 1 µg/mL of Mouse NKX3.1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6475) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for NKX3.1 at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956