

Datasheet for ABIN7126747

**Recombinant anti-NKX3-1 antibody (AA 92-224)**[Go to Product page](#)

## Overview

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                          |
| Target:              | NKX3-1                                                                          |
| Binding Specificity: | AA 92-224                                                                       |
| Reactivity:          | Human                                                                           |
| Host:                | Rabbit                                                                          |
| Antibody Type:       | Recombinant Antibody                                                            |
| Clonality:           | Monoclonal                                                                      |
| Conjugate:           | This NKX3-1 antibody is un-conjugated                                           |
| Application:         | ELISA, Coating (Coat), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

## Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Immunogen:   | Recombinant fragment (around aa 92-224) of human NKX3.1 protein (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype:     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity: | NKX3.1 is a prostate specific gene encoding a transcription factor that plays an important role in normal prostate development and carcinogenesis. It is a prostatic tumor suppressor gene located on chromosome 8p21.2, which frequently undergoes a loss of heterozygosity. NKX3.1 expression is highly restricted in prostate epithelial cells and therefore can be used as a diagnostic biomarker for prostate cancer and other metastatic lesions of prostatic origin. Furthermore, NKX3.1 shows better sensitivity than Prostate Specific Antigen (PSA) for identifying metastatic prostatic adenocarcinoma. This suggests that immunohistochemical |

## Product Details

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|                             | staining of NKX3.1, along with other prostate-restricted markers, may be valuable for the definitive determination of prostatic origin in poorly differentiated metastatic carcinomas. |
| Cross-Reactivity (Details): | Human.                                                                                                                                                                                 |
| Purification:               | 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.                                                                                                                                |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Target:           | NKX3-1                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alternative Name: | NKX3-1 ( <a href="#">NKX3-1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                    |
| Background:       | <p>NK3 Homeobox 1, Homeobox Protein NK-3 Homolog A, NKX3-1, NKX3A, NK3 Transcription Factor Related, Locus 1 (Drosophila), NK3 Transcription Factor Related, Locus 1, NK Homeobox (Drosophila), Family 3, A, NK3 Transcription Factor Homolog A, NK Homeobox, Family 3, A, Homeobox Protein Nkx-3.1, BAPX2, NKX3,NKX3.1 (Metastatic Prostate Adenocarcinoma Marker)</p> <p>Cellular localisation: Nuclear</p> |
| Molecular Weight: | 35kDa                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene ID:          | 4824, 55999                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">Q99801</a>                                                                                                                                                                                                                                                                                                                                                                                        |
| Pathways:         | <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>                                                                                                                                                                                             |

## Application Details

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| Application Notes: | <p>Known_Application: ELISA (For coating, order Ab without BSA),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &amp;degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.</p> <p>Positive_Control: Highly expressed in the prostate and at a lower level in the testis.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Handling

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| Concentration: | 1.0 mg/mL |
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Handling

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| Buffer:          | Prepared in 10 mM PBS, WITHOUT BSA and Azide.                                                     |
| Preservative:    | Azide free                                                                                        |
| Storage:         | -20 °C,-80 °C                                                                                     |
| Storage Comment: | Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date:     | 24 months                                                                                         |