

Datasheet for ABIN7658006

## anti-NKX3-1 antibody (AA 92-224) (CF®640R)



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | NKX3-1                                                                                                  |
| Binding Specificity: | AA 92-224                                                                                               |
| Reactivity:          | Human                                                                                                   |
| Host:                | Mouse                                                                                                   |
| Clonality:           | Monoclonal                                                                                              |
| Conjugate:           | This NKX3-1 antibody is conjugated to CF®640R                                                           |
| Application:         | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | NKX3.1 (Metastatic Prostate Adenocarcinoma Marker)(NKX3.1/3348), CF640R conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen:       | Recombinant fragment (around aa 92-224) of human NKX3.1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clone:           | NKX3-1-3348                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype:         | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Characteristics: | 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 |

## Product Details

identifying metastatic prostatic adenocarcinoma. This suggests that immunohistochemical 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. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | NKX3-1                                                                                                                                                                                                                 |
| Alternative Name: | NKX3.1                                                                                                                                                                                                                 |
| Background:       | Synonyms: 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<br>Gene Symbol: NKX3-1 |
| Molecular Weight: | 35 kDa                                                                                                                                                                                                                 |
| Gene ID:          | 4824                                                                                                                                                                                                                   |
| 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

|                    |                                                                                        |
|--------------------|----------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator.                     |
| Comment:           | Positive Control: Highly expressed in the prostate and at a lower level in the testis. |
| Restrictions:      | For Research Use only                                                                  |

## Handling

|                |                              |
|----------------|------------------------------|
| Format:        | Liquid                       |
| Concentration: | 0.1 mg/mL                    |
| Buffer:        | PBS, 0.1 % BSA, 0.05 % azide |

## Handling

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|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Preservative:      | Sodium azide                                                                                                                         |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.               |
| Handling Advice:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |