

Datasheet for ABIN7658010

anti-NKX3-1 antibody (AA 92-224) (CF®647)



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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®647
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	NKX3.1 (Metastatic Prostate Adenocarcinoma Marker)(NKX3.1/3347), CF647 conjugate
Immunogen:	Recombinant fragment (around aa 92-224) of human NKX3.1 protein
Clone:	NKX3-1-3347
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 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 Gene Symbol: NKX3-1
Molecular Weight:	35 kDa
Gene ID:	4824
UniProt:	Q99801
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Positive Regulation of Endopeptidase Activity , Positive Regulation of Response to DNA Damage Stimulus

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

Handling

Buffer:	PBS, 0.1 % BSA, 0.05 % azide
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. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months