Immunotag™ Nkx-3.1 Monoclonal Antibody

Antibody Specification

Catalog No.	ITM0477
Product Description	Immunotag™ Nkx-3.1 Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	NKX-3.1
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,FCM,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of human Nkx-3.1 expressed in E. Coli.
Specificity	Nkx-3.1 Monoclonal Antibody detects endogenous levels of Nkx-3.1 protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	NKX3-1
Accession No.	Q99801 P97436
Alternate Names	NKX3-1; NKX3.1; NKX3A; Homeobox protein Nkx-3.1; Homeobox protein NK-3 homolog A
Description	NK3 homeobox 1(NKX3-1) Homo sapiens This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of this gene is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jan 2012],

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Cell Pathway/ Category	Pathways in cancer,Prostate cancer,
Protein Expression	Lung,Prostate,
Subcellular Localization	intracellular,nucleus,
Protein Function	Additional isoforms seem to exist,disease:NKX3-1 has been thought to be one of the target gene of the 8p21 loss of heterozygosity, common in prostate cancer, but neither disruption of the coding region of the gene, nor mutations have been found in prostate cancer.,function:Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Could play an important role in regulating proliferation of glandular epithelium and in the formation of ducts in prostate.,induction:By androgens and, in the LNCAP cell line, by estrogens. Androgenic control may be lost in prostate cancer cells during tumor progression from an androgen-dependent to an androgen-independent phase.,similarity:Belongs to the NK-3 homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,subunit:Interacts with serum response factor (SRF) (By similarity). Interacts with SPDEF. Interacts with WDR77.,tissue specificity:Highly expressed in the prostate and, at a lower level, in the testis.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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