Mouse anti-Human NKX3.1 Monoclonal Antibody | anti-NKX3.1 antibody

NKX3.1 (Metastatic Prostate Adenocarcinoma Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215102	**Mouse**	**Human**	**Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

NKX3.1; Monoclonal Antibody; NKX3.1 (Metastatic Prostate Adenocarcinoma Marker); NKX3A; NK3 Transcription Factor Related; Locus 1 (Drosophila); Locus 1; NK Homeobox (Drosophila); Family 3; A; NK3 Transcription Factor Homolog A; NK Homeobox; BAPX2;; anti-NKX3.1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	NKX3.1/3350
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 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 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	159
Applicable Applications for anti-NKX3.1 antibody	IHC (Immunohistochemistry), ELISA
Positive Control	Highly expressed in the prostate and at a lower level in the testis.
Immunogen	Recombinant fragment (around aa 92-224) of human NKX3.1 protein (exact sequence is proprietary)
Cellular Localization	Nuclear
Hu-chromosome Location	8p21.2
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using NKX3.1-Monospecific Mouse Monoclonal Antibody (NKX3.1/3350). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

SDS-PAGE
SDS-PAGE Analysis Purified NKX3.1 Mouse Monoclonal Antibody (NKX3.1/3350). Confirmation of Purity and Integrity of Antibody.

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with NKX3.1 Mouse Monoclonal Antibody (NKX3.1/3350).

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with NKX3.1 Mouse Monoclonal Antibody (NKX3.1/3350).

NCBI AND UNIPROT INFORMATION

NCBI GI #	373432628
NCBI GeneID	4824
NCBI Accession #	NP_001243268.1
NCBI GenBank Nucleotide #	NP_001243268.1
UniProt Accession #	Q99801
Molecular Weight	35kDa
NCBI Official Full Name	homeobox protein Nkx-3.1 isoform 2
NCBI Official Synonym Full Names	NK3 homeobox 1
NCBI Official Symbol	NKX3-1
NCBI Official Synonym Symbols	NKX3; BAPX2; NKX3A; NKX3.1
NCBI Protein Information	homeobox protein Nkx-3.1
UniProt Protein Name	Homeobox protein Nkx-3.1
UniProt Gene Name	**NKX3-1**
UniProt Synonym Gene Names	NKX3.1; NKX3A
UniProt Entry Name	NKX31_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/nkx31-antibody-clone-nkx3-1-3350-immunohistochemistry-elisa/215102