

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

NKX3.1 (Metastatic Prostate Adenocarcinoma Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215106	Mouse	Human	Immunohistochemistry, ELISA

PRODUCT SYNONYMS

NKX3.1; Monoclonal Antibody; NKX3.1 (Metastatic Prostate Adenocarcinoma Marker); NK3 Transcription Factor Related; Locus 1; NK Homeobox (Drosophila); Family 3; A; NK3 Transcription Factor Homolog A; NK Homeobox; Homeobox Protein Nkx-3.1; BAPX2; NKX3; anti-NKX3.1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	NKX3.1/3348
Specificity	<p>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.</p> <p>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.</p>
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified AbWITHOUT 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	Recombinantfragment(around aa 92-224) of humanNKX3.1 protein (exact sequence is proprietary)
Cellular Localization	Nuclear
Hu-chromosome Location	8p21.2
Preparation and Storage	<p>Antibody with azide: store at 2 to 8 degree C.</p> <p>Antibody without azide: store at -20 to -80 degree C.</p> <p>Antibody is stable for 24 months. Non-hazardous. No MSDS required.</p>

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using NKX3.1-Monospecific Mouse Monoclonal Antibody (NKX3.1/3348). 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 HuProt™ 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 HuProt™ 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-Monospecific Mouse Monoclonal Antibody (NKX3.1/3348). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with NKX3.1-Monospecific Mouse Monoclonal Antibody (NKX3.1/3348).



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Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with NKX3.1-Monospecific Mouse Monoclonal Antibody (NKX3.1/3348).

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

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