10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NKX3-1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant NKX3-1.
Catalog # AT3058a

Product Information

Application	WB, IF, E
Primary Accession	Q99801
Other Accession	NM_006167
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C7
Calculated MW	26350

Additional Information

Gene ID	4824
Other Names	Homeobox protein Nkx-31, Homeobox protein NK-3 homolog A, NKX3-1, NKX31, NKX3A
Target/Specificity	NKX3-1 (NP_006158, 100 a.a. ~ 209 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NKX3-1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

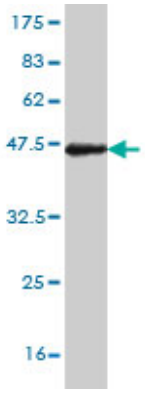
The homeodomain-containing transcription factor NKX3-1 is a putative prostate tumor suppressor that is expressed in a largely prostate-specific and androgen-regulated manner. Loss of NKX3-1 protein expression is a common finding in human prostate carcinomas and prostatic intraepithelial neoplasia.

References

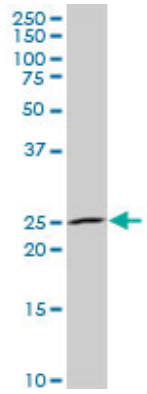
NKX3.1 as a marker of prostatic origin in metastatic tumors. Gurel B, et al. Am J Surg Pathol, 2010 Aug. PMID 20588175.Prostate cancer risk-associated variants reported from genome-wide association studies: Meta-analysis and their contribution to genetic Variation. Kim ST, et al. Prostate, 2010 Jun 16. PMID

20564319.ETS transcription factors control transcription of EZH2 and epigenetic silencing of the tumor suppressor gene Nkx3.1 in prostate cancer. Kunderfranco P, et al. PLoS One, 2010 May 10. PMID 20479932.NKX3.1 activates cellular response to DNA damage. Bowen C, et al. Cancer Res, 2010 Apr 15. PMID 20395202.Androgen regulation of the prostatic tumour suppressor NKX3.1 is mediated by its 3' untranslated region. Thomas MA, et al. Biochem J, 2010 Jan 15. PMID 19886863.

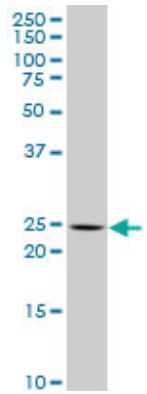
Images



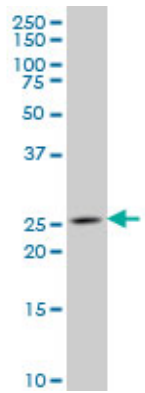
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



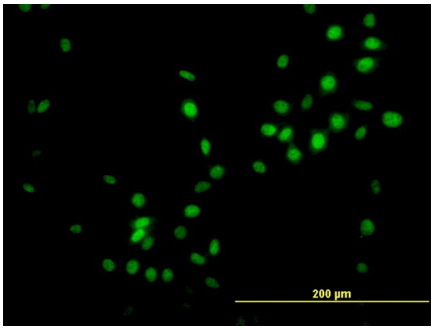
NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in PC-12((Cat # AT3058a)



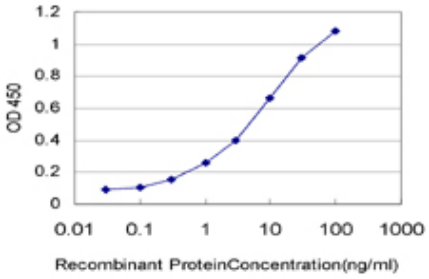
NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in Raw 264.7((Cat # AT3058a)



NKX3-1 monoclonal antibody (M02), clone 1C7 Western Blot analysis of NKX3-1 expression in NIH/3T3 ((Cat # AT3058a)



Immunofluorescence of monoclonal antibody to NKX3-1 on NIH/3T3 cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged NKX3-1 is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.