

**NKX3-1 Antibody (monoclonal) (M02)**

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

Catalog # AT3058a

**Specification**

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**NKX3-1 Antibody (monoclonal) (M02) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">Q99801</a>
Other Accession	<a href="#">NM_006167</a>
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	26350

**NKX3-1 Antibody (monoclonal) (M02) - 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

**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.

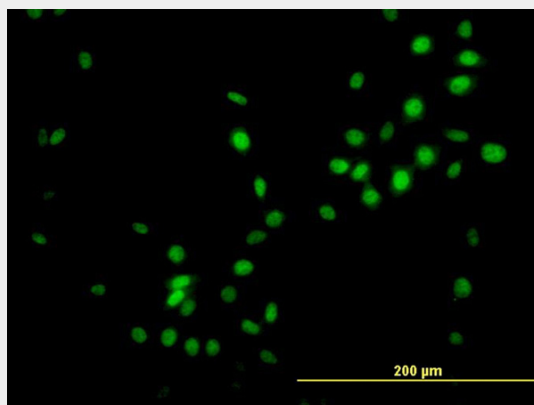
**NKX3-1 Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

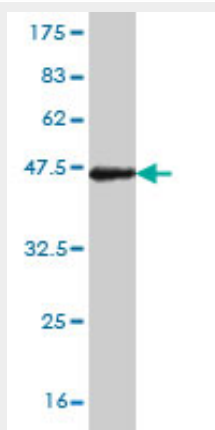
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

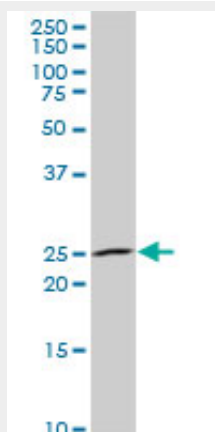
### NKX3-1 Antibody (monoclonal) (M02) - Images



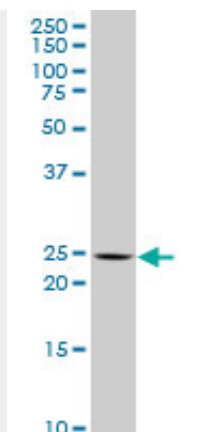
Immunofluorescence of monoclonal antibody to NKX3-1 on NIH/3T3 cell. [antibody concentration 10 ug/ml]



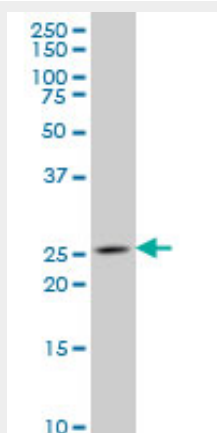
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



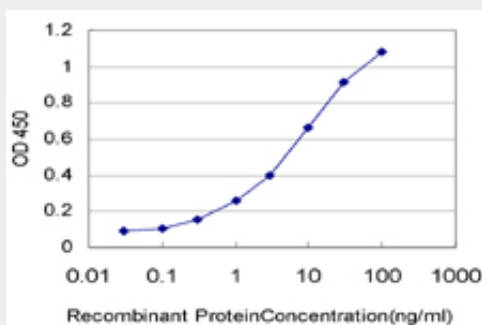
NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in PC-12 (Cat # AT3058a )



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)



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

### **NKX3-1 Antibody (monoclonal) (M02) - 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.

### **NKX3-1 Antibody (monoclonal) (M02) - 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.