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NKX3-1 Antibody (monoclonal) (M02)

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

Specification

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

Application	**IF, WB, E**
Primary Accession	Q99801
Other Accession	NM_006167
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

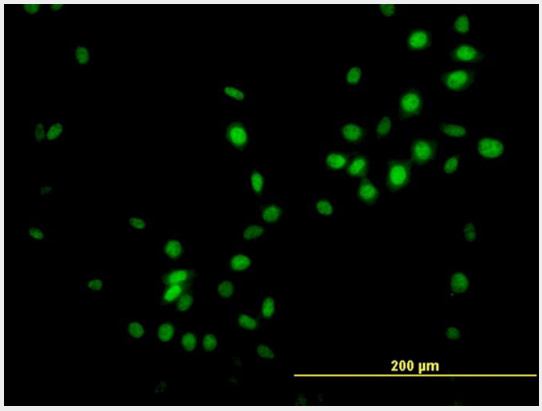
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

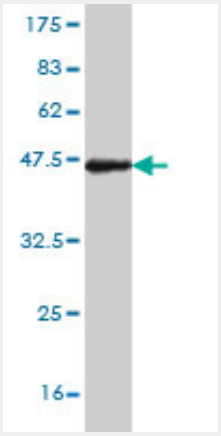
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

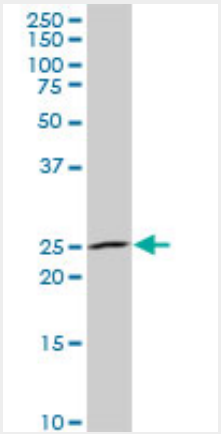
NKX3-1 Antibody (monoclonal) (M02) - Images



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

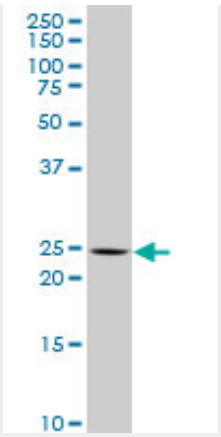


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

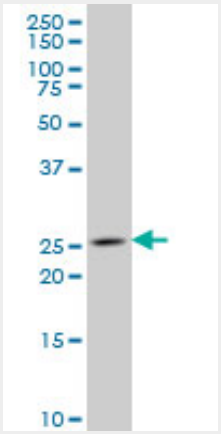


NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in PC-12((Cat # AT3058a)

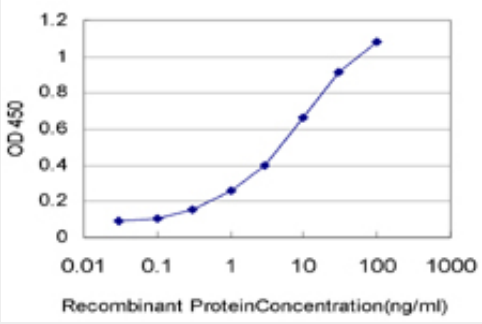
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NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in Raw 264.7((Cat # AT3058a)



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.