

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 | WB, IF, E |
| Primary Accession | O99801 |
| 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

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.

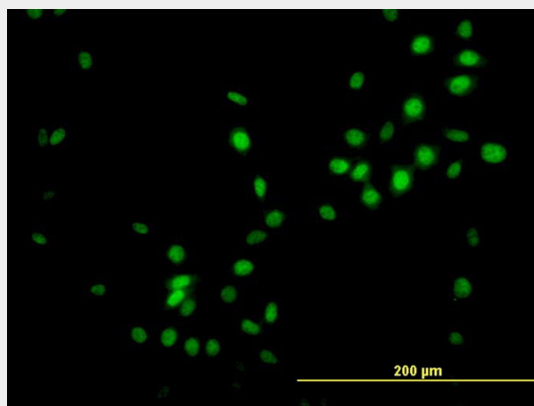
NKX3-1 Antibody (monoclonal) (M02) - Protocols

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

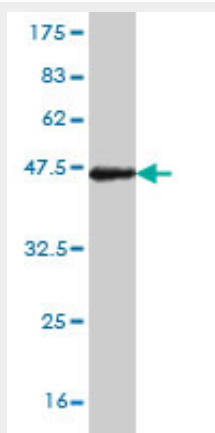
- [Western Blot](#)
- [Blocking Peptides](#)

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

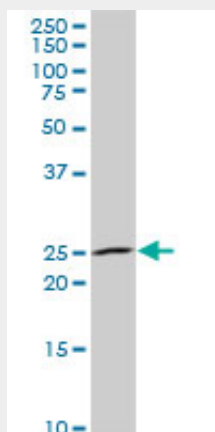
NKX3-1 Antibody (monoclonal) (M02) - Images



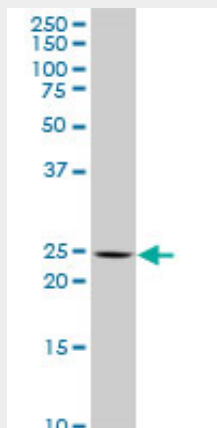
Immunofluorescence of monoclonal antibody to NKX3-1 on NIH/3T3 cell. [antibody concentration 10 ug/ml]



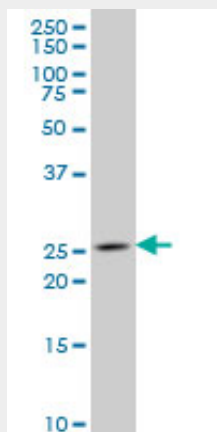
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



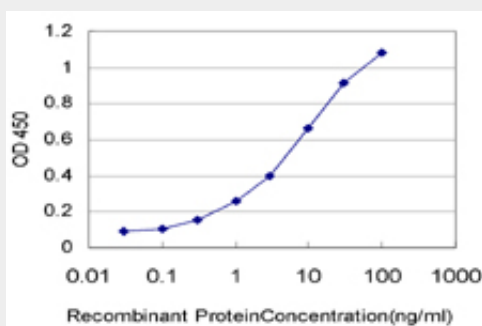
NKX3-1 monoclonal antibody (M02), clone 1C7. Western Blot analysis of NKX3-1 expression in PC-12((Cat # AT3058a)



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.