Mouse anti NKX3.1 Monoclonal Antibody

Alternative Name(s): NK3 homeobox1; NKX3

Order Information

- **Description:** NKX3.1
- **Catalogue:** 606-090
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY464
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein NKX3.1

BACKGROUND

This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Nkx3.1 is a member of the NK2 class of homeodomain proteins and is expressed in development, being an early marker of the sclerotome and prostate gland. It has been shown to be a critical factor for prostate differentiation and function. NKX3.1 is predominantly localized to prostate epithelium. NKX3-1 contains two exons encoding a 234 amino acid 35-38 kDa protein including a homeodomain. NKX3.1 is a prostatic tumor suppressor gene located on chromosome 8p.Most studies have shown that staining for NKX3.1 protein is positive in the majority of primary prostatic adenocarcinomas.. One study showed that NKX3.1 staining with this antibody was highly sensitive and specific for high-grade prostatic adenocarcinoma when compared with high-grade urothelial carcinoma. This antibody was shown to be a highly specific and sensitive tissue marker of metastatic prostatic adenocarcinoma.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human NKX3.1 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 36.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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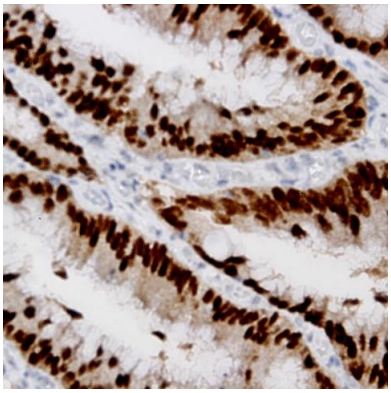
DATA ATTACHMENTS



Immunohistochemistry: Humancolon carcinoma (FFPE) stained with Mouse anti-NKX3.1 (CloneZY464) (Cat# 606-090) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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