



## Rabbit anti NKX3.1 Polyclonal Antibody

Alternative Name(s): NK3 homeobox1; NKX3

### Order Information

- **Description:** NKX3.1
- **Catalogue:** 602-420
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to N-terminus of human NKX3.1

### **BACKGROUND**

The Nkx3.1 gene encodes an androgen regulated prostate-specific homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. In mice the homologue Nkx3.1 is exclusively expressed in prostate epithelium. In humans, Nkx3.1 expression is also restricted to the prostate. Many data show that Nkx3.1 expression is highly, but not exclusively, specific for the prostate. Aberrant expression of this gene is associated with prostate tumor progression.

### **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\***

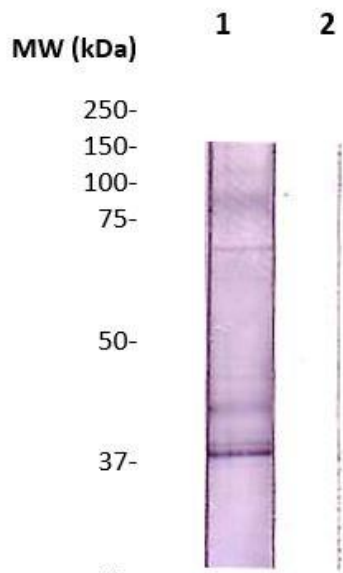
- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 35.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

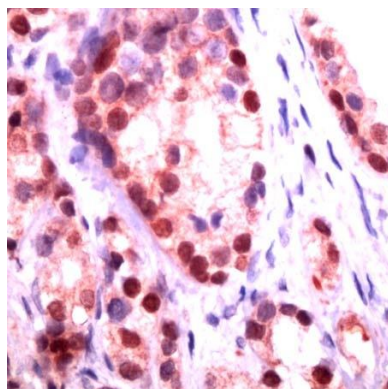
### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Western Blot: The LNCaP cell lysate was immuno-blotted by Rabbit anti NKX3.1 antibody, (Cat#602-420) at 1:250 (Lane 1). Lane 2 was pre-incubated with immunizing peptide. Observed a major immunoreactive band at molecular weight 34 kDa.



Immunohistochemistry: Human prostate cancer tissue stained with Rabbit Anti-NKX3.1 antibody (Cat# 602-420) at 1:25 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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