

## Anti-Nkx-3.1 Monoclonal Antibody

Catalog Number: A02709

### About NKX3-1

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of  $\alpha$ -amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Emamian ES, et al. (2004) J Neurosci. 24(7): 1561-4

Palmer, C.L. et al. (2005) Pharmacol. Rev. 57, 253-277.

### Overview

Product Name	Anti-Nkx-3.1 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Nkx-3.1 Monoclonal Antibody catalog # A02709. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Monoclonal 4H4
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q99801

### Technical Details

Immunogen	Purified recombinant fragment of human Nkx-3.1 expressed in E.coli.
Predicted Reactive Species	Canine, Equine, Guinea Pig, Rabbit
Isotype	IgG2b
Form	Liquid
Concentration	This antibody's concentration is >0.5mg/ml.
Purification	The antibody was isolated from ascitic fluid by immunoaffinity chromatography using antigens

coupled to agarose beads.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

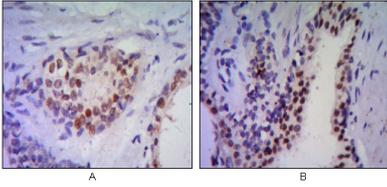
WB, 1:500-1:2000

IHC, 1:200-1:1000

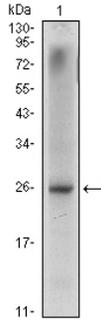
FC, 1:200-1:400

ELISA 1:10000

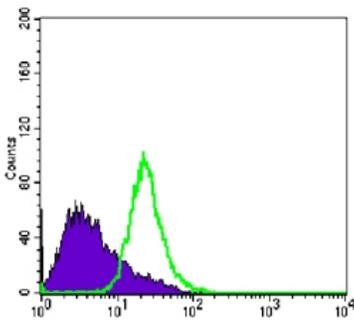
## Anti-Nkx-3.1 Monoclonal Antibody (A02709) Images



Immunohistochemistry (IHC) analysis of paraffin-embedded human prostate tissues (A, B) with DAB staining using Nkx-3.1 Monoclonal antibody.



Western Blot (WB) analysis using Nkx-3.1 Monoclonal antibody against LNCaP (1) cell lysate.



Flow cytometric (FCM) analysis of PC-3 cells using Nkx-3.1 Monoclonal antibody (green) and negative control (purple).

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