

Product Datasheet

NKX6.1 Antibody **NBP1-49672SS**

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 6/15/2014 v.20.1

NBP1-49672SS

NKX6.1 Antibody

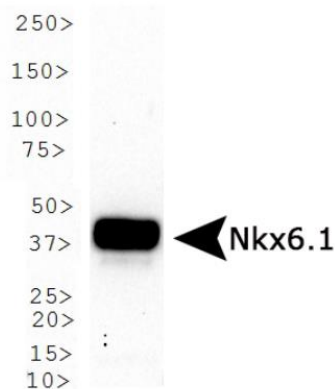
Product Information	
Unit Size	0.025 ml
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS, 30% glycerol

Product Description	
Host	Rabbit
Gene ID	4825
Gene Symbol	NKX6-1
Species	Human, Mouse
Species Reactivity	Human and mouse.
Immunogen	A genomic peptide made to an internal region of the human Nkx6.1 protein (within residues 50-200). [Swiss-Prot P78426]
Notes	Manufactured by Genomic Antibody Technology™. GAT FAQs

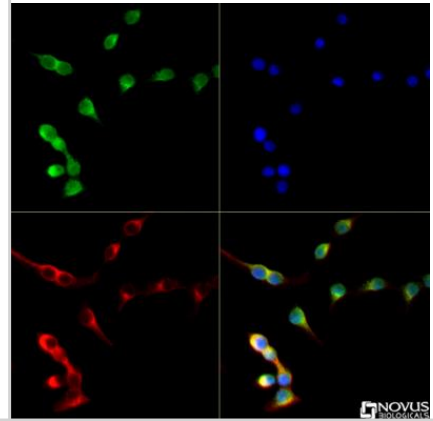
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:50-1:100, Immunohistochemistry-Paraffin 1:50-1:100, Western Blot 1:100-1:2000, Immunocytochemistry/Immunofluorescence, Simple Western 1:100
Application Notes	This Nkx6.1 antibody is useful for Immunohistochemistry-paraffin embedded sections. In IHC-P, staining was observed in the nucleus of mouse intestines. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In Simple Western only 10-15 uL of the recommended dilution is used per data point.

Images

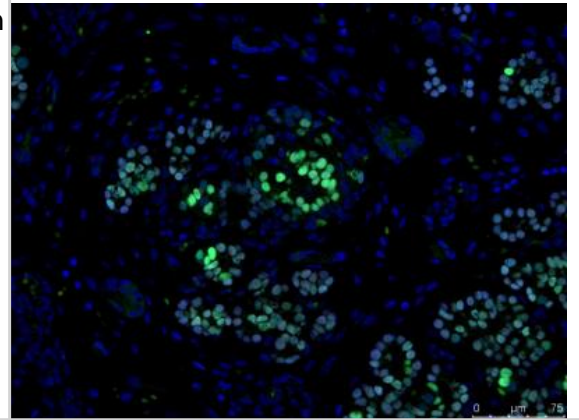
Western Blot: Nkx6.1 Antibody [NBP1-49672] - WB analysis of Nkx6.1 in human skeletal muscle.



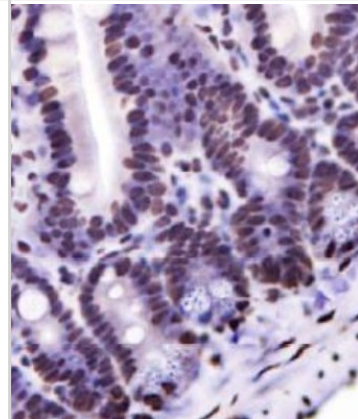
Immunocytochemistry/Immunofluorescence: Nkx6.1 Antibody [NBP1-49672] - Nkx6.1 antibody was tested at 1:250 in INS-1 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 40x.



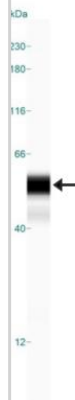
Immunohistochemistry-Paraffin: Nkx6.1 Antibody [NBP1-49672] - Human fetal pancreas stained for Nkx6.1, green, and PDX1, grey. Image from verified customer review.



Immunohistochemistry: Nkx6.1 Antibody [NBP1-49672] - IHC staining of Nkx6.1 in mouse intestine using DAB with hematoxylin counterstain.



Simple Western: NKX6.1 Antibody [NBP1-49672] - Simple Western lane view shows a specific band for NKX6.1 in 0.5 mg/ml of BTC-6 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Theofilopoulos S, Griffiths WJ, Crick PJ et al. Cholestenic acids regulate motor neuron survival via liver X receptors. *J. Clin. Invest.* 2014 Nov 03 [PMID: 25271621] (ICC/IF, Mouse)

Details:

NKX6.1 antibody used for ICC-IF on primary midbrain cultures (mouse E11.5) treated or not with 3beta-7alpha-diHCA, 3 betaH,7O-CA, 3 beta,7 beta-diHCA or 3beta-HCA - 4% PFA fixation, 1 hour blocking with 5% normal goat serum/PBS, primary incubated for ON in PBSpH 7.4 containing 0.3% Triton X-100 and 1% BSA (Figure 4 B).

Theofilopoulos S, Wang Y, Kitambi SS et al. Brain endogenous liver X receptor ligands selectively promote midbrain neurogenesis *Nat Chem Biol* 2012 Dec 23 [PMID: 23292650] (ICC/IF, Mouse)



Procedures

Immunohistochemistry-Paraffin Embedded Sections protocol specific for Nkx6.1 Antibody (NBP1-49672)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

