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NKX2-6 Antibody

Catalog # ASC11448

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	A6NCS4
Other Accession	NP_001129743, 343183350
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	32121
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NKX2-6 antibody can be used for detection of NKX2-6 by Western blot at 1 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 5 g/mL.

Additional Information

Gene ID	137814
Other Names	Homeobox protein Nkx-2.6, Homeobox protein NK-2 homolog F, NKX2-6, NKX2F
Target/Specificity	NKX2-6; NKX2-6 antibody is predicted to not cross-react with other NK2 homeobox family members. At least two isoforms of NKX2-6 are known to exist; this antibody will detect both isoforms
Reconstitution & Storage	NKX2-6 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	NKX2-6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NKX2-6
Synonyms	NKX2F
Function	Acts as a transcriptional activator (PubMed: 15649947). In conjunction with NKX2-5, may play a role in both pharyngeal and cardiac embryonic development.
Cellular Location	Nucleus.

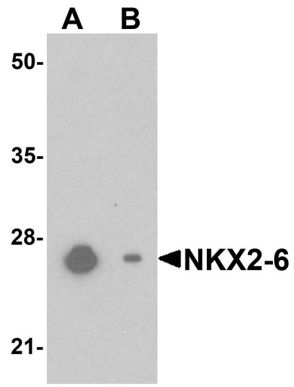
Background

NKX2-6 Antibody: NKX2-6 (NK2 homeobox 6) is a member of a family of transcription factors that are involved in embryonic development and cell fate. NKX2-6 is a vertebrate homolog of Drosophila homeobox-containing protein called 'tinman', which has been shown to be essential for development of the heart-like dorsal vessel. In conjunction with related gene, NKX2-5, this gene may play a role in both pharyngeal and cardiac embryonic development. Mutations in this gene are thought to be a cause for some congenital heart abnormalities.

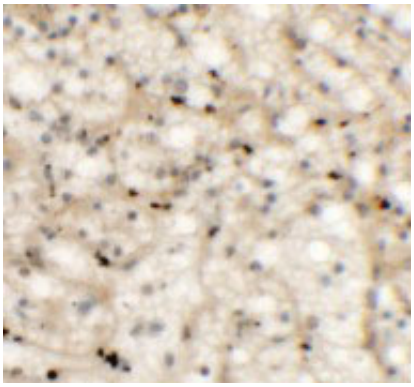
References

Copeland NG, Jenkins NA, and Harvey RP. The murine homeobox genes Nkx2.3 and Nkx2.6 are located on chromosomes 19 and 14, respectively. Genomics 1994; 22:655-6.
Tanaka M, Kasahara H, Bartunkova S, et al. Vertebrate homologs of tinman and bagpipe: roles of the homeobox genes in cardiovascular development. Dev. Genet. 1998; 22:239-49.
Biben C, Hatzistavrou T, and Harvey RP. Expression of NK-2 class homeobox gene Nkx2-6 in foregut endoderm and heart. Mech. Dev. 1998; 73:125-7
Tanaka M, Schinke M, Liao HS, et al. Nkx2.5 and Nkx2.6, homologs of Drosophila tinman, are required for development of the pharynx. Mol. Cell. Biol. 2001; 21:4391-8.

Images

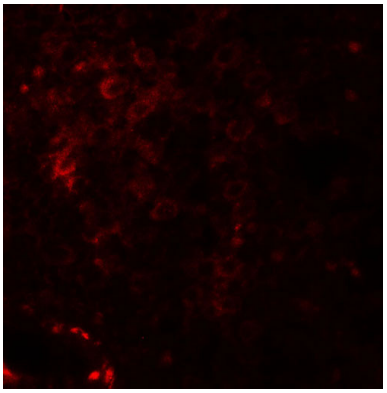


Western blot analysis of NKX2-6 in mouse heart tissue lysate with NKX2-6 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of NKX2-6 in human spleen tissue with NKX2-6 antibody at 5 µg/mL.

Immunofluorescence of NKX-6 in human spleen tissue with NKX2-6 antibody at 20 µg/mL.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.