

NKX2-4 Antibody

Catalog # ASC11447

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9H2Z4
Other Accession	NP_149416 , 157426823
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	36179
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NKX2-4 antibody can be used for detection of NKX2-4 by Western blot at 1 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

Additional Information

Gene ID	644524
Other Names	Homeobox protein Nkx-2.4, Homeobox protein NK-2 homolog D, NKX2-4, NKX2D
Target/Specificity	NKX2-4; NKX2-4 antibody is predicted to not cross-react with other NK2 homeobox family members. At least two isoforms of NKX2-4 are known to exist; this antibody will detect both isoforms.
Reconstitution & Storage	NKX2-4 antibody can be stored at 4°C for three months and -20°C, 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	NKX2-4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NKX2-4
Synonyms	NKX2D
Function	Probable transcription factor.
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00108}.

Background

NKX2-4 Antibody: NKX2-4 (NK2 homeobox 4) is a member of a family of transcription factors that are involved in embryonic development and cell fate. NKX2-4 is closely related to NKX2-1 and NKX2-4 and is specifically localized to the ventral diencephalon. Recent experiments in *Xenopus* have suggested that the homeodomain protein XANF is necessary for the activation of NKX2-4, but does not directly regulate its expression.

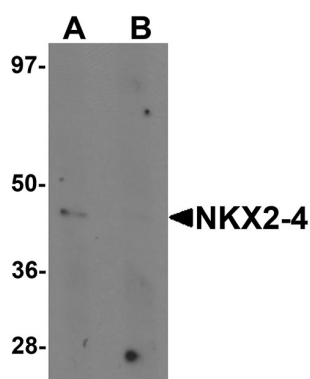
References

Wang CC, Brodnicki T, Copeland NG, et al. Conserved linkage of NK-2 homeobox gene pairs *Nkx2-2/2-4* and *Nkx2-1/2-9* in mammals. *Mamm. Genome* 2000; 11:466-8.

Small EM, Vokes SA, Garriock RJ, et al. Developmental expression of the *Xenopus* *Nkx2-1* and *Nkx2-4* genes. *Mech. Dev.* 2000; 96:259-62.

Hill JT, Chao CS, Anderson KR, et al. *Nkx2.2* activates the ghrelin promoter in pancreatic islet cells. *Mol. Endocrinol.* 2010; 381-90.

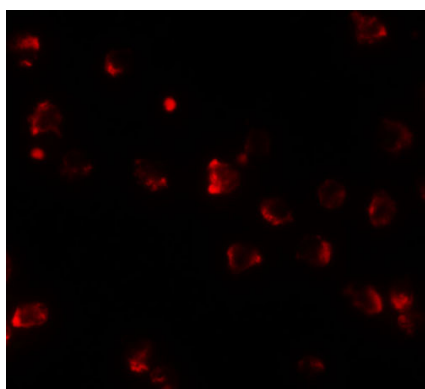
Images



Western blot analysis of NKX2-4 in A20 cell lysate with NKX2-4 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of NKX2-4 in A20 cells with NKX2-4 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of NKX2-4 in A20 cells with NKX2-4 antibody at 20 $\mu\text{g/mL}$.

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