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# NKX2-4 Antibody

Catalog # ASC11447

## Product Information

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| **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 g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 g/mL. For immunofluorescence start at 20 g/mL. |

## Additional Information

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| **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℃ 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** | NKX2-4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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

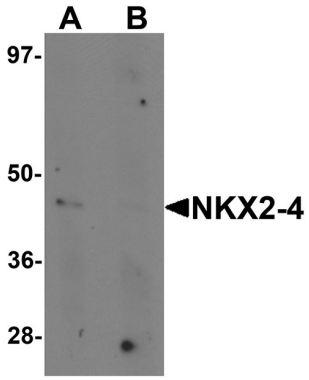
## Background

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.

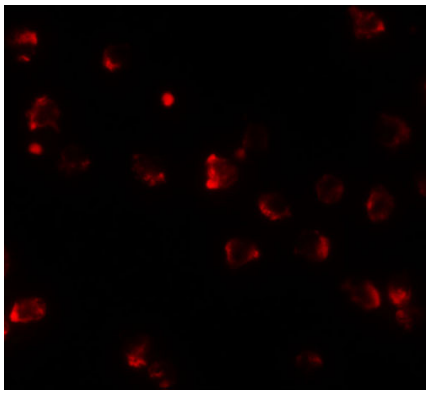
## Images




Western blot analysis of NKX2-4 in A20 cell lysate with NKX2-4 antibody at 1 µg/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 µg/mL.



Immunofluorescence of NKX2-4 in A20 cells with NKX2-4 antibody at 20 µg/mL.

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