

Product datasheet for **AP01480PU-N**

Nkx2.6 (NKX2-6) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | Western Blot: 1/500-1/1000. |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | Nkx-2.6 antibody detects endogenous levels of Nkx-2.6 protein. (region surrounding Arg133) |
| Formulation: | Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity chromatography |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | ~ 28 kDa |
| Gene Name: | NK2 homeobox 6 |
| Database Link: | Entrez Gene 137814 Human A6NCS4 |

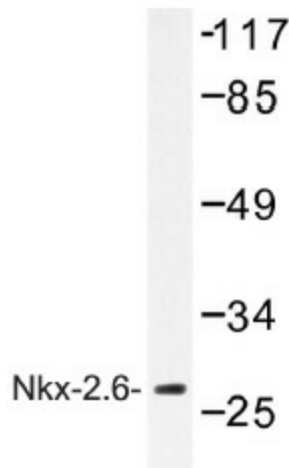
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Background:

Members of the NK-2 family of homeodomain proteins are key regulators of growth and development in several tissues, including brain, heart and pancreas. Nkx-2.5, also designated cardiac specific homeobox protein (Csx), is a homolog of the *Drosophila* tinman protein and is essential for normal cardiovascular development. Expression of Nkx-2.5 during cardiomyogenesis is required for cardiac septation, in which a single atrium and ventricle are separated into four chambers. Nkx-2.5 binds to DNA as a monomer, a homodimer or as a heterodimer with Nkx-2.3 or Nkx-2.6, which suggests that the specific protein-protein interactions of Nkx-2.5 are involved in its transcriptional regulatory function. Nkx-2.6, also a homolog of the *Drosophila* tinman protein, is expressed in the caudal pharyngeal pouches, the caudal heart progenitors, the sinus venosus, the outflow tract of the heart and in a short segment of the gut between stages E8.5 and E10.5 of embryogenesis. Expression of Nkx-2.6 overlaps with that of Nkx-2.5 in the pharynx and heart. However, Nkx-2.6 mutant mice are viable and fertile, which suggests that Nkx-2.6 plays a compensatory function to Nkx-2.5.

Synonyms:

NKX2F, Nkx-2.6

Product images:


Western blot (WB) analysis of Nkx-2.6 antibody (Cat.-No.: AP01480PU-N) in extracts from COLO cells.