

**Mouse Nkx2-5 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21109a**

**Specification**

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**Mouse Nkx2-5 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P42582</a>
Other Accession	<a href="#">O35767</a>
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34163

**Mouse Nkx2-5 Antibody (Center) - Additional Information**

**Gene ID** 18091

**Other Names**

Homeobox protein Nkx-25, Cardiac-specific homeobox, Homeobox protein CSX, Homeobox protein NK-2 homolog E, Nkx2-5, Csx, Nkx-25, Nkx2e

**Target/Specificity**

This mouse Nkx2-5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 192-235 amino acids from the Central region of mouse Nkx2-5.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Nkx2-5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Nkx2-5 Antibody (Center) - Protein Information**

**Name** Nkx2-5

**Synonyms** Csx, Nkx-2.5, Nkx2e

**Function** Transcription factor required for the development of the heart and the spleen (PubMed:[16556915](#), PubMed:[19483677](#), PubMed:[22560297](#), PubMed:[9584153](#)). During heart development, acts as a transcriptional activator of NPPA/ANF in cooperation with GATA4 (PubMed:[9584153](#)). May cooperate with TBX2 to negatively modulate expression of NPPA/ANF in the atrioventricular canal (PubMed:[12023302](#)). Binds to the core DNA motif of NPPA promoter (PubMed:[19483677](#)). Together with PBX1, required for spleen development through a mechanism that involves CDKN2B repression (PubMed:[22560297](#)). Positively regulates transcription of genes such as COL3A1 and MMP2, resulting in increased pulmonary endothelial fibrosis in response to hypoxia (By similarity).

#### Cellular Location

Nucleus.

#### Tissue Location

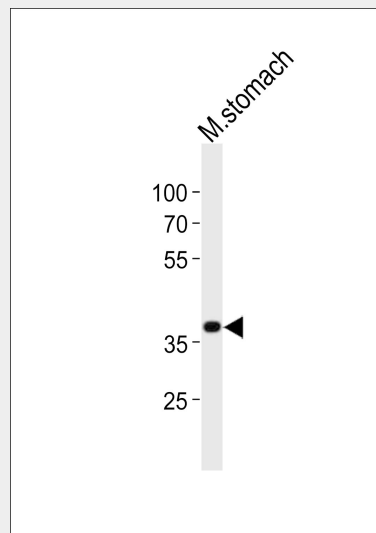
Predominantly in the adult and embryonic heart, and to a lesser extent in lingual muscle, spleen and stomach

### Mouse Nkx2-5 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Mouse Nkx2-5 Antibody (Center) - Images



Western blot analysis of lysate from mouse stomach tissue lysate, using Nkx2-5 Antibody (Center)(Cat. #AP21109a). AP21109a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

### Mouse Nkx2-5 Antibody (Center) - Background

Implicated in commitment to and/or differentiation of the myocardial lineage. Acts as a transcriptional activator of ANF in cooperation with GATA4. It is transcriptionally controlled by PBX1 and acts as a transcriptional repressor of CDKN2B. Together with PBX1, it is required for spleen development through a mechanism that involves CDKN2B repression.

#### **Mouse Nkx2-5 Antibody (Center) - References**

- Lints T.J., et al. *Development* 119:419-431(1993).  
Lints T.J., et al. *Development* 119:969-969(1993).  
Searcy R.D., et al. *Development* 125:4461-4470(1998).  
Komuro I., et al. *Proc. Natl. Acad. Sci. U.S.A.* 90:8145-8149(1993).  
Kim Y.H., et al. *J. Biol. Chem.* 273:25875-25879(1998).