

Mouse Nkx2-5 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21109a

Specification

Mouse Nkx2-5 Antibody (Center) - Product Information

Application WB,E **Primary Accession** P42582 O35767 Other Accession Reactivity Mouse Predicted Rat Host Rabbit **Polyclonal** Clonality 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

E~~Use at an assay dependent concentration.

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

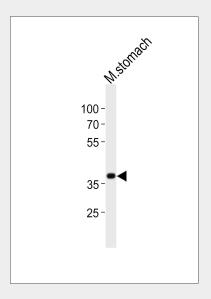
Predominantly in the adult and embryonic heart, and to a lesser extent in lingual muscle, spleen and stomach

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 Cytomety
- 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).