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(Mouse) Hopx Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21373c

Specification

(Mouse) Hopx Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q8R1H0
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**22-54**

(Mouse) Hopx Antibody (Center) - Additional Information

Gene ID 74318

Other Names
Homeodomain-only protein, Homeobox-only protein, Odd homeobox protein 1, mOB1, Hopx, Hod, Hop, Ob1

Target/Specificity
This Mouse Hopx antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 22-54 amino acids from the Central region of Mouse Hopx.

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) Hopx Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

(Mouse) Hopx Antibody (Center) - Protein Information

Name Hopx

Synonyms Hod, Hop, Ob1

Function Atypical homeodomain protein which does not bind DNA and is required to modulate

cardiac growth and development. Acts via its interaction with SRF, thereby modulating the expression of SRF- dependent cardiac-specific genes and cardiac development. Prevents SRF-dependent transcription either by inhibiting SRF binding to DNA or by recruiting histone deacetylase (HDAC) proteins that prevent transcription by SRF. Overexpression causes cardiac hypertrophy (PubMed:12297045, PubMed:12297046). Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and assists in chaperone-mediated protein refolding (By similarity).

Cellular Location
Nucleus. Cytoplasm. Note=According to PubMed:14516659 it is cytoplasmic.

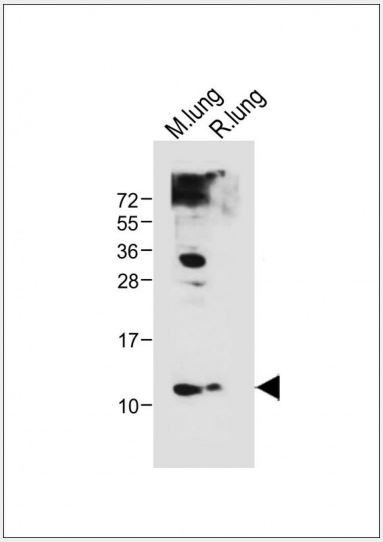
Tissue Location
Expressed in the embryonic and adult heart and in the adult brain, liver, lung, skeletal muscle, intestine and spleen Throughout embryonic and postnatal development, it is expressed in the myocardium.

(Mouse) Hopx 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) Hopx Antibody (Center) - Images



All lanes : Anti-(Mouse) Hopx Antibody (Center) at 1:1000 dilution Lane 1: Mouse lung tissue lysate Lane 2: Rat lung tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 8 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

(Mouse) Hopx Antibody (Center) - Background

Atypical homeodomain protein which does not bind DNA and is required to modulate cardiac growth and development. Acts via its interaction with SRF, thereby modulating the expression of SRF-dependent cardiac-specific genes and cardiac development. Prevents SRF-dependent transcription either by inhibiting SRF binding to DNA or by recruiting histone deacetylase (HDAC) proteins that prevent transcription by SRF. Overexpression causes cardiac hypertrophy.

(Mouse) Hopx Antibody (Center) - References

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Adu J.,et al.Mech. Dev. 119:S43-S47(2002).
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