

Mouse Hmx3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7424b

Product Information

Application	WB, E
Primary Accession	P42581
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10373
Calculated MW	37859
Antigen Region	193-224

Additional Information

Gene ID	15373
Other Names	Homeobox protein HMX3, Homeobox protein H6 family member 3, Homeobox protein Nkx-51, Hmx3, Nkx-51, Nkx5-1
Target/Specificity	This Mouse Hmx3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 193-224 amino acids from the C-terminal region of mouse Hmx3.
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 Hmx3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Hmx3
Synonyms	Nkx-5.1, Nkx5-1
Function	Transcription factor involved in specification of neuronal cell types and

which is required for inner ear and hypothalamus development. Binds to the 5'-CAAGTG-3' core sequence. Controls semicircular canal formation in the inner ear. Also required for hypothalamic/pituitary axis of the CNS.

Cellular Location

Nucleus.

Tissue Location

Expressed in the developing CNS, including a specific expression in vestibular structures throughout inner ear development.

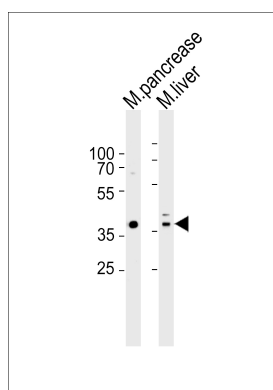
Background

Hmx3 is a transcription factor involved in specification of neuronal cell types and which is required for inner ear and hypothalamus development. This protein binds to the 5'-CAAGTG-3' core sequence. It controls semicircular canal formation in the inner ear and is also required for hypothalamic/pituitary axis of the CNS.

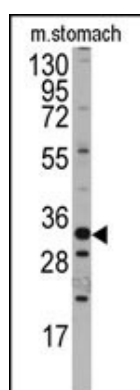
References

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Rinkwitz-Brandt S., Justus M., Mech. Dev. 52:371-381(1995)
Rinkwitz-Brandt S., Arnold H.H., Bober E. Hear. Res. 99:129-138(1996)
Amendt B.A., Sutherland L.B., J. Biol. Chem. 274:11635-11642(1999)

Images



Western blot analysis of lysates from mouse pancreas and mouse liver tissue (from left to right), using Hmx3 (Mouse C-term)(Cat. #AP7424B). AP7424B was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Western blot analysis of anti-Mouse Hmx3 Antibody (C-term) (Cat.#AP7424b) in mouse stomach tissue lysates (35ug/lane). Hmx3(arrow) was detected using the purified Pab

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