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Mouse Noto Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21141a

Product Information

Application	WB, E
Primary Accession	Q5TIS6
Reactivity	Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB51261
Calculated MW	26322

Additional Information

Gene ID	384452
Other Names	Homeobox protein notochord, Noto, Not
Target/Specificity	This Mouse Noto antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 200-234 amino acids from the C-terminal region of Mouse Noto.
Dilution	WB~~1:4000 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 Noto Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Noto
Synonyms	Not
Function	Transcription factor that controls node morphogenesis (PubMed: 15231714, PubMed:17884984, PubMed:18061569, PubMed:22357932). Acts downstream of both FOXA2 and Brachyury (T) during notochord development

(PubMed:15231714). Is essential for cilia formation in the posterior notochord (PNC) and for left-right patterning; acts upstream of FOXJ1 and RFX3 in this process and is required for the expression of various components important for axonemal assembly and function (PubMed:17884984). Plays a role in regulating axial versus paraxial cell fate (PubMed:18061569). Activates the transcription of ciliary proteins C11orf97 homolog, FAM183B and SPACA9 in the embryonic ventral node (PubMed:27914912).

Cellular Location Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

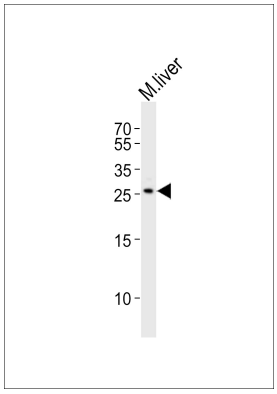
Background

Transcription regulator acting downstream of both FOXA2 and T during notochord development. Required for node morphogenesis. Is essential for cilia formation in the posterior notochord (PNC) and for left-right patterning; acts upstream of FOXJ1 and RFX3 in this process and is required for the expression of various components important for axonemal assembly and function. Plays a role in regulating axial versus paraxial cell fate.

References

Ben Abdelkhalek H.,et al.Genes Dev. 18:1725-1736(2004).
Carninci P.,et al.Science 309:1559-1563(2005).
Yamanaka Y.,et al.Dev. Cell 13:884-896(2007).
Beckers A.,et al.Proc. Natl. Acad. Sci. U.S.A. 104:15765-15770(2007).

Images



Western blot analysis of lysate from mouse liver tissue lysate, using Noto Antibody (C-term)(Cat. #AP21141a). AP21141a was diluted at 1:2000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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