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IRX3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14549a

Product Information

Application	IHC-P, WB, E
Primary Accession	P78415
Other Accession	O42261, P81067, NP_077312.2
Reactivity	Human, Mouse
Predicted	Mouse, Xenopus, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52119
Antigen Region	111-140

Additional Information

Gene ID	79191
Other Names	Iroquois-class homeodomain protein IRX-3, Homeodomain protein IRXB1, Iroquois homeobox protein 3, IRX3, IRXB1
Target/Specificity	This IRX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-140 amino acids from the N-terminal region of human IRX3.
Dilution	IHC-P~~1:100~500 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	IRX3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IRX3
Synonyms	IRXB1
Function	Transcription factor involved in SHH-dependent neural patterning. Together

with NKX2-2 and NKX6-1 acts to restrict the generation of motor neurons to the appropriate region of the neural tube. Belongs to the class I proteins of neuronal progenitor factors, which are repressed by SHH signals. Involved in the transcriptional repression of MNX1 in non-motor neuron cells. Acts as a regulator of energy metabolism.

Cellular Location Nucleus.

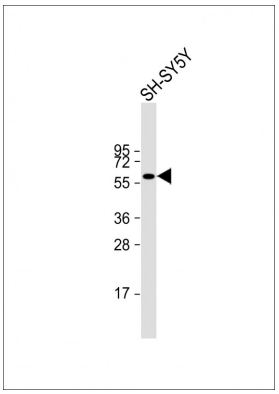
Background

IRX3 is a member of the Iroquois homeobox gene family (see IRX1; MIM 606197) and plays a role in an early step of neural development (Bellefroid et al., 1998 [PubMed 9427753]). Members of this family appear to play multiple roles during pattern formation of vertebrate embryos (Lewis et al., 1999 [PubMed 10370142]).

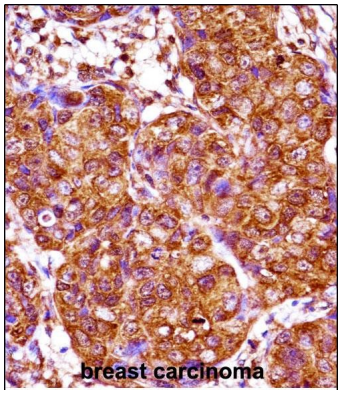
References

Ragvin, A., et al. Proc. Natl. Acad. Sci. U.S.A. 107(2):775-780(2010)
Trynka, G., et al. Gut 58(8):1078-1083(2009)
Lewis, M.T., et al. Cell Tissue Res. 296(3):549-554(1999)
Bellefroid, E.J., et al. EMBO J. 17(1):191-203(1998)

Images



Anti-IRX3 Antibody (N-term) at 1:1000 dilution + SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



IRX3 Antibody (N-term) (AP14549a)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of IRX3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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