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IHH Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14935a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q14623
Other Accession	P97812, NP_002172.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35519
Calculated MW	45251
Antigen Region	51-80

Additional Information

Gene ID	3549
Other Names	Indian hedgehog protein, IHH, HHG-2, Indian hedgehog protein N-product, Indian hedgehog protein C-product, IHH
Target/Specificity	This IHH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-80 amino acids from the N-terminal region of human IHH.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	IHH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IHH (HGNC:5956)
Function	Plays a role in embryonic morphogenesis; it is involved in the regulation of endochondral skeleton formation, and the development of retinal pigment

	epithelium (RPE), photoreceptors and periocular tissues (By similarity).
Cellular Location	[Indian hedgehog protein N-product]: Cell membrane; Lipid-anchor {ECO:0000250|UniProtKB:Q62226}. Note=The N-product remains associated with the cell surface. {ECO:0000250|UniProtKB:Q15465}
Tissue Location	Expressed in embryonic lung, and in adult kidney and liver

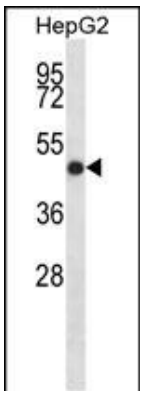
Background

This gene encodes a member of the hedgehog family of secreted signaling molecules. Hedgehog proteins are essential regulators of a variety of developmental processes including growth, patterning and morphogenesis. The encoded protein specifically plays a role in bone growth an differentiation. Mutations in this gene are the cause of brachydactyly type A1 which is characterized by shortening or malformation of the phalanges. Mutations in this gene are also the cause of acrocapitofemoral dysplasia.

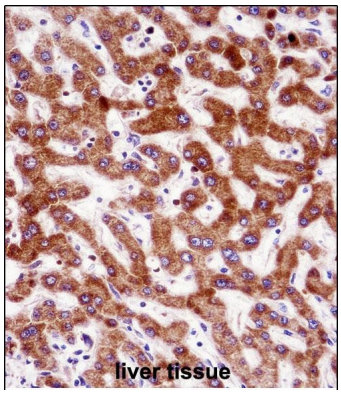
References

Meulenbelt, I., et al. Ann. Rheum. Dis. (2010) In press :
Kang, S.J., et al. Hum. Mol. Genet. 19(13):2725-2738(2010)
Okada, Y., et al. Hum. Mol. Genet. 19(11):2303-2312(2010)
Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :
Chuang, P.T., et al. Nature 397(6720):617-621(1999)

Images



IHH Antibody (N-term) (Cat. #AP14935a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the IHH antibody detected the IHH protein (arrow).



IHH Antibody (N-term) (AP14935a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of IHH Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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