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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, Rat, Bovine, Canine, Rabbit, Chicken
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 {ECO:0000303|PubMed:7590746, ECO:0000312|HGNC:HGNC:5956}
Function	[Indian hedgehog protein]: Precursor of indian hedgehog, a morphogen that activates the smoothened signaling pathway, and which is essential for bone

	and cartilage development (By similarity). The C- terminal part of the precursor displays an autoproteolysis and a cholesterol transferase activity, resulting (1) in the cleavage of the full-length protein into two parts, indian hedgehog protein N-product and C-product and (2) covalent attachment of a cholesterol moiety to the C-terminus of the newly generated N-product (By similarity). Both autoproteolysis and a cholesterol transferase activities occur in the endoplasmic reticulum (By similarity). Following additional lipidation, N-product acts as a morphogen, while C-product is degraded in the endoplasmic reticulum (By similarity).
Cellular Location	[Indian hedgehog protein]: Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q15465}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q15465}. Note=Co-localizes with HHAT in the ER and Golgi membrane. {ECO:0000250|UniProtKB:Q15465}
Tissue Location	Expressed in embryonic lung, and in adult kidney and liver

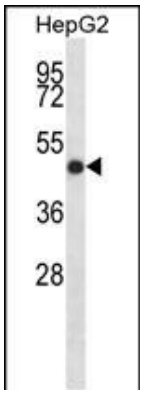
Background

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

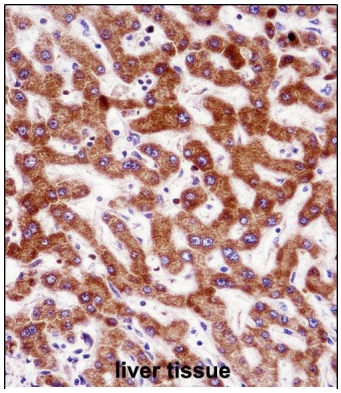
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Images



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.



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