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IHH Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5320

Product Information

Application	WB
Primary Accession	Q14623
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	45251
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	3549
Antigen Region	397-431
Other Names	Indian hedgehog protein, IHH, HHG-2, Indian hedgehog protein N-product, Indian hedgehog protein C-product, IHH
Dilution	WB~~1:1000
Target/Specificity	This IHH antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 397-431 amino acids from the C-terminal region of human IHH.
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 (C-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

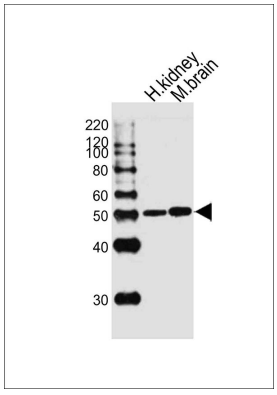
Background

Intercellular signal essential for a variety of patterning events during development. Binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. Implicated in endochondral ossification: may regulate the balance between growth and ossification of the developing bones. Induces the expression of parathyroid hormone-related protein (PTHRP) (By similarity).

References

Tate G.,et al.J. Biochem. Mol. Biol. Biophys. 4:27-34(2000).
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Marigo V.,et al.Genomics 28:44-51(1995).
Chang D.T.,et al.Development 120:3339-3353(1994).
Pepinsky R.B.,et al.J. Biol. Chem. 273:14037-14045(1998).

Images



Western blot analysis of lysates from human kidney,mouse brain tissue lysate (from left to right), using IHH Antibody (C-term)(Cat. #AW5320). AW5320 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

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