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Ihh Polyclonal Antibody

Catalog # AP73206

Product Information

Application	WB, E
Primary Accession	Q14623
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45251

Additional Information

Gene ID	3549
Other Names	IHH; Indian hedgehog protein; IHH; HHG-2
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

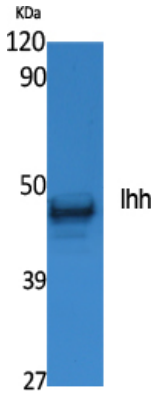
Protein Information

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).

Images



Western Blot analysis of extracts from NIH-3T3 cells, using Ihh Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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