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Ihh Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2704b

Product Information

Application	WB, E
Primary Accession	Q80XI9
Other Accession	Q91612, P97812, Q14623, Q98862, Q98938
Reactivity	Human, Mouse
Predicted	Chicken, Zebrafish, Xenopus, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB10378
Calculated MW	49445
Antigen Region	169-200

Additional Information

Gene ID	16147
Other Names	Indian hedgehog
Target/Specificity	This Ihh antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 169-200 amino acids from the C-terminal region of human Ihh.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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:0000313|EMBL:AAH46984.1, ECO:0000313|MGI:MGI:96533}
Function	Precursor of indian hedgehog, a morphogen that activates the smoothened signaling pathway, and which is essential for bone and cartilage development. 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. Both autoproteolysis and a cholesterol transferase activities occur in the endoplasmic reticulum. Following additional lipidation, N- product acts as a morphogen, while C-product is degraded in the endoplasmic reticulum.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000256|ARBA:ARBA00004586}. Secreted {ECO:0000256|ARBA:ARBA00004613} [Protein hedgehog N-product]: Cell membrane {ECO:0000256|RuleBase:RU280812}; Lipid-anchor {ECO:0000256|RuleBase:RU280812}

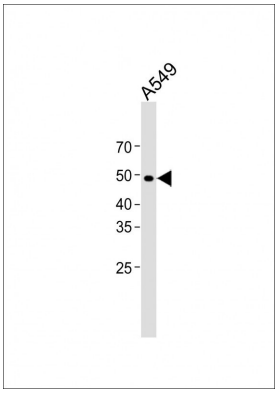
Background

Ihh (Indian hedgehog) is a critical and possibly direct regulator of joint development. In its absence, distribution and function of Gdf5-expressing interzone-associated cells are abnormal.

References

Kobayashi,T., Proc. Natl. Acad. Sci. U.S.A. 105 (6), 1949-1954 (2008)
Gat-Yablonski,G.,J. Pediatr. Endocrinol. Metab. 20 (11), 1215-1222 (2007)
Koyama,E., Ann. N. Y. Acad. Sci. 1116, 100-112 (2007)

Images



All lanes: Anti-Ihh Antibody (Center) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 49 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

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