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IHH Antibody (C-term) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM1981a

Product Information

Application	WB, E
Primary Accession	Q14623
Other Accession	O75473, F1MT22, NP_034674.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG3
Clone Names	363CT4.1.6
Calculated MW	45251

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 Monoclonal antibody is generated from mouses immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human IHH.
Dilution	WB~~1:500~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
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) (Ascites) 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

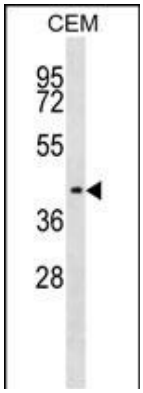
Background

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).

References

van Dop, W.A., et al. Gastroenterology 139(5):1665-1676(2010) Koike, S., et al. Biochem. Biophys. Res. Commun. 400(1):66-71(2010) Rice, D.P., et al. Hum. Mol. Genet. 19(17):3457-3467(2010) Witte, F., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14211-14216(2010) Lyashenko, N., et al. Dev. Dyn. 239(8):2266-2277(2010)

Images



IHH antibody (C-term) (Cat. #AM1981a) western blot analysis in CEM cell line lysates (35µg/lane).This demonstrates the IHH antibody detected the IHH protein (arrow).

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