

ARG40890 anti-IHH / Indian hedgehog antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IHH / Indian hedgehog
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IHH / Indian hedgehog
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 51-80 of Human IHH.
Conjugation	Un-conjugated
Alternate Names	BDA1; IHH; HHG2; Indian hedgehog protein; HHG-2

Application Instructions

Application table	Application	Dilution
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 45 kDa	

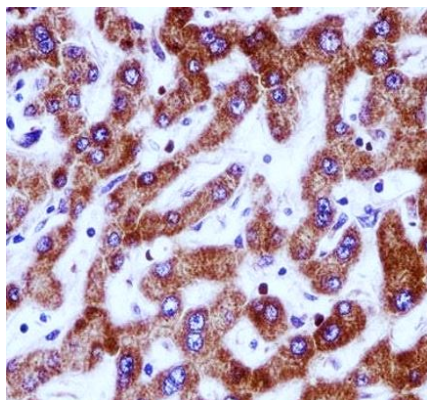
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

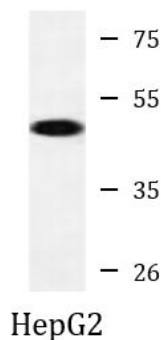
Gene Symbol	IHH
Gene Full Name	indian hedgehog
Background	This gene encodes a member of the hedgehog family of secreted signaling molecules. Hedgehog proteins are essential regulators of a variety of developmental processes including growth, patterning and morphogenesis. The encoded protein specifically plays a role in bone growth and 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. [provided by RefSeq, Feb 2010]
Function	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). [UniProt]
Calculated Mw	45 kDa
PTM	<p>The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. Both activities result in the cleavage of the full-length protein and covalent attachment of a cholesterol moiety to the C-terminal of the newly generated N-terminal fragment (N-product). The N-product is the active species in both local and long-range signaling, whereas the C-product has no signaling activity (By similarity).</p> <p>Cholesterylation is required for N-product targeting to lipid rafts and multimerization.</p> <p>Palmitoylated. N-palmitoylation is required for N-product multimerization and full activity. [UniProt]</p>
Cellular Localization	Indian hedgehog protein N-product: Cell membrane; Lipid-anchor; Extracellular side. Note=The N-terminal peptide remains associated with the cell surface. Cell membrane. [UniProt]

Images



ARG40890 anti-IHH / Indian hedgehog antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human liver tissue stained with ARG40890 anti-IHH / Indian hedgehog antibody.



ARG40890 anti-IHH / Indian hedgehog antibody WB image

Western blot: 35 µg of HepG2 cell lysate stained with ARG40890 anti-IHH / Indian hedgehog antibody.