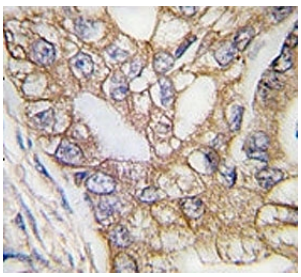
Ihh Antibody / Indian hedgehog protein (F40064)

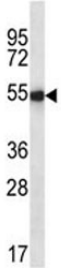
Catalog No.	Formulation	Size
F40064-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40064-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q80XI9
Applications	IHC (Paraffin) : 1:10-1:50 Western Blot : 1:1000
Limitations	This Ihh antibody is available for research use only.



IHC analysis of FFPE human lung carcinoma tissue stained with Ihh antibody



Ihh antibody western blot analysis in mouse liver tissue lysate

Description

IHH antibody targets Indian hedgehog protein, encoded by the IHH gene. Indian hedgehog protein functions as a morphogen that mediates short- and long-range signaling during embryogenesis and postnatal tissue organization. As part of the hedgehog signaling family, IHH contributes to spatial patterning by establishing signaling gradients that guide cellular behavior.

Functionally, Indian hedgehog protein activates transcriptional programs that regulate proliferation, differentiation, and tissue boundary formation. By controlling hedgehog pathway activity, IHH integrates positional information with gene expression outcomes. An IHH antibody enables investigation of pathway activation dynamics in developmental and disease-associated contexts.

IHH is most strongly associated with cartilage and bone biology. Its expression within developing skeletal elements ensures coordinated progression of chondrocyte maturation and ossification. Loss or alteration of Indian hedgehog protein signaling disrupts this coordination, emphasizing its role as a key developmental regulator.

From a disease-relevance perspective, altered IHH signaling has been studied in inherited skeletal disorders and conditions involving abnormal calcification. Indian hedgehog protein has also been explored in cancer research, where aberrant activation of developmental signaling pathways contributes to tumor growth and tissue invasion.

At the molecular level, Indian hedgehog protein is processed into biologically active fragments whose stability and diffusion properties influence signaling output. These features can affect detection profiles in experimental systems. IHH antibody reagents support research applications focused on morphogen signaling and developmental control mechanisms, with NSJ Bioreagents providing reagents intended for research use.

Application Notes

Titration of the Ihh antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-30 from the mouse protein was used as the immunogen for this Ihh antibody.

Storage

Aliquot the Ihh antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.