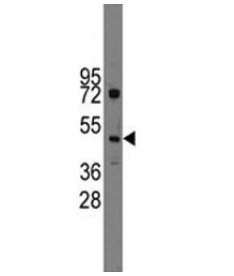
# Ihh Antibody / Indian hedgehog protein (F40065)

| Catalog No. | Formulation | Size |
|---|---|---|
| F40065-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F40065-0.08ML | 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 |
| **Predicted Reactivity** | Chicken, Zebrafish, Xenopus |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Purified |
| **UniProt** | Q80XI9 |
| **Applications** | Western blot: 1:1000 |
| **Limitations** | This Ihh antibody is available for research use only. |




Western blot analysis of Ihh antibody and HL-60 lysate

## Description

IHH antibody targets Indian hedgehog protein, encoded by the IHH gene. Indian hedgehog protein is a secreted developmental regulator that coordinates intercellular communication through hedgehog pathway signaling. It plays an essential role in orchestrating growth and differentiation during embryonic development and tissue maturation.

Functionally, Indian hedgehog protein links cellular position to downstream transcriptional responses. Activation of

hedgehog signaling by IHH influences gene expression programs that govern cell cycle progression and lineage commitment. An IHH antibody supports studies examining pathway-dependent signaling events and tissue patterning processes.

IHH expression is tightly restricted to specific developmental niches, particularly within cartilage-forming regions of the skeleton. This localized production allows formation of controlled signaling gradients that ensure orderly tissue architecture. Disruption of these gradients can lead to abnormal growth and structural defects.

From a disease-relevance perspective, Indian hedgehog protein has been implicated in developmental disorders and malignancies characterized by reactivation of embryonic signaling pathways. Understanding IHH expression and signaling dynamics is therefore important for studies of both normal development and disease-associated signaling dysregulation.

At the molecular level, Indian hedgehog protein undergoes enzymatic processing and lipid modification that regulate its activity and extracellular distribution. These biochemical properties can influence its apparent behavior in laboratory assays. IHH antibody reagents support research applications focused on hedgehog pathway biology and developmental signaling, 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 169-200 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.


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