

Anti-Ihh Antibody
Catalog # ABO11535**Specification**

Anti-Ihh Antibody - Product Information

Application	WB
Primary Accession	Q14623
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Indian hedgehog protein(IHH) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Ihh Antibody - Additional Information

Gene ID 3549

Other Names

Indian hedgehog protein, IHH, HHG-2, Indian hedgehog protein N-product, Indian hedgehog protein C-product, IHH

Calculated MW

45251 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Indian hedgehog protein N-product: Cell membrane ; Lipid-anchor ; Extracellular side . The N-terminal peptide remains associated with the cell surface. .

Tissue Specificity

Expressed in embryonic lung, and in adult kidney and liver.

Protein Name

Indian hedgehog protein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Ihh(250-264aa EPHRLRAFQVIETQD), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Ihh Antibody - Protein Information

Name IHH ([HGNC:5956](#))

Function

[Indian hedgehog protein]: The C-terminal part of the indian hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (By similarity). Both activities result in the cleavage of the full-length protein into two parts followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated N-product (By similarity). Both activities occur in the reticulum endoplasmic (By similarity). Plays a role in hedgehog paracrine signaling (PubMed: [24342078](http://www.uniprot.org/citations/24342078)). Associated with the very-low-density lipoprotein (VLDL) particles to function as a circulating morphogen for endothelial cell integrity maintenance (PubMed: [20839884](http://www.uniprot.org/citations/20839884)).

Cellular Location

[Indian hedgehog protein N-product]: Cell membrane; Lipid-anchor
{ECO:0000250|UniProtKB:Q62226}. Note=The N-product remains associated with the cell surface.
{ECO:0000250|UniProtKB:Q15465}

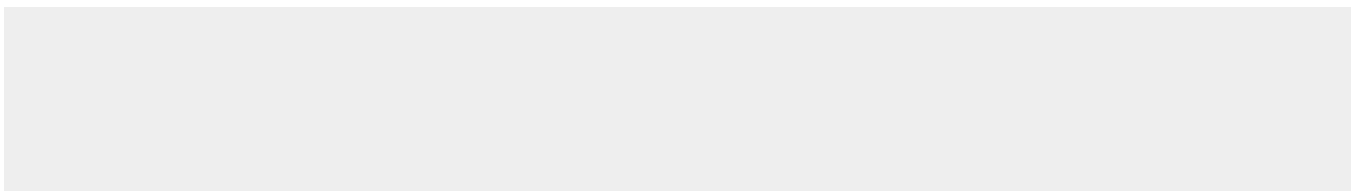
Tissue Location

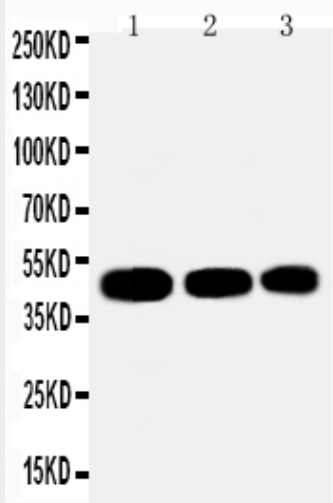
Expressed in embryonic lung, and in adult kidney and liver

Anti-Ihh Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Ihh Antibody - Images



Anti-Ihh antibody, ABO11535, Western blotting
Lane 1: HEK293T Cell Lysate
Lane 2: SMMC Cell Lysate
Lane 3: HEPG2 Cell Lysate

Anti-Ihh Antibody - Background

Indian hedgehog, also known as IHH or HHG2 is a protein which in humans is encoded by the IHH gene. This gene encodes a member of the hedgehog family of secreted signaling molecules. IHH gene is mapped to 2q35. 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.