

### Anti-Ihh antibody ab39634

★★★★☆ [3 Abreviews](#) [41 References](#) [5 图像](#)

#### 概述

产品名称	Anti-Ihh抗体
描述	兔多克隆抗体to Ihh
宿主	Rabbit
特异性	Replenishment batches of our polyclonal antibody, ab39634 are tested in IHC-P. Previous batches were additionally validated in ICC/IF and WB. These applications are still expected to work and are covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, <a href="#">ab52919</a> .
经测试应用	适用于: WB, ICC/IF, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Cow 
免疫原	Synthetic peptide corresponding to Mouse Ihh aa 350 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab39633</a> )
阳性对照	Brain (Mouse) Tissue Lysate Colon (Mouse) Tissue Lysate - normal tissue NIH 3T3 (Mouse embryonic fibroblast cell line) Whole cell lysate
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

**纯度** Immunogen affinity purified  
**克隆** 多克隆  
**同种型** IgG

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab39634于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 45 kDa).
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## 靶标

**功能** 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).

**组织特异性** Expressed in embryonic lung, and in adult kidney and liver.

**疾病相关** Defects in IHH are the cause of brachydactyly type A1 (BDA1) [MIM:112500]. BDA1 is an autosomal dominant disorder characterized by middle phalanges of all the digits rudimentary or fused with the terminal phalanges. The proximal phalanges of the thumbs and big toes are short. Defects in IHH are a cause of acrocapitofemoral dysplasia (ACFD) [MIM:607778]. ACFD is a disorder characterized by short stature of variable severity with postnatal onset. The most constant radiographic abnormalities are observed in the tubular bones of the hands and in the proximal part of the femur. Cone-shaped epiphyses or a similar epiphyseal configuration with premature epimetaphyseal fusion result in shortening of the skeletal components involved. Cone-shaped epiphyses were also present to a variable extent at the shoulders, knees, and ankles.

**序列相似性** Belongs to the hedgehog family.

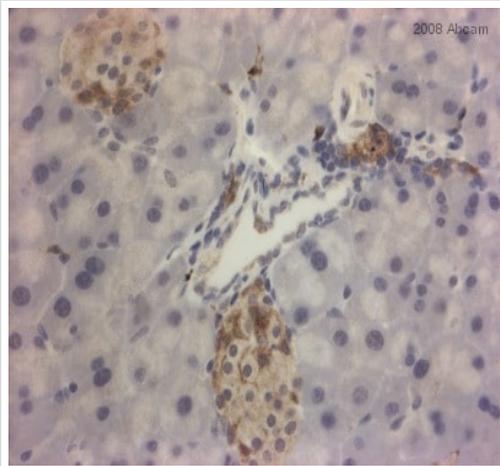
**翻译后修饰** The C-terminal domain displays an autoproteolysis activity and a cholesterol transferase activity. Both activities result in the cleavage of the full-length protein and covalent attachment of a cholesterol moiety to the C-terminal of the newly generated N-terminal fragment (N-product). The N-product is the active species in both local and long-range signaling, whereas the C-product has no signaling activity. Cholesterylation is required for N-product targeting to lipid rafts and multimerization.

Palmitoylated. N-palmitoylation is required for N-product multimerization and full activity.

## 细胞定位

Secreted > extracellular space. The C-terminal peptide diffuses from the cell and Cell membrane. The N-terminal peptide remains associated with the cell surface.

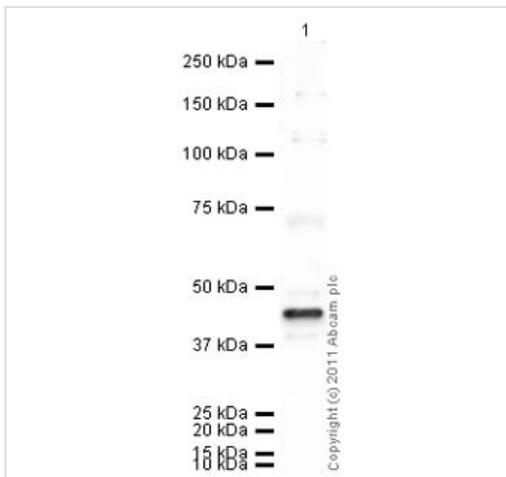
## 图片



ab39634 (1/50) staining Lih in paraffin-embedded mouse pancreas tissue sections. Tissue underwent fixation in formaldehyde, heat-mediated antigen retrieval in citrate buffer pH 6.0 and blocking (5 minutes/peroxidase block and 10 minutes/protein block). For further experimental details please refer to abreview. Strongest staining observed in islet cells of the pancreas.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lih antibody (ab39634)

This image is courtesy of an Abreview submitted by Antibody Solutions Ltd.



Western blot - Anti-Lih antibody (ab39634)

Anti-Lih antibody (ab39634) at 1 µg/ml + Lung (Human) Whole Cell Lysate - fetal normal tissue ([ab30282](#)) at 10 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

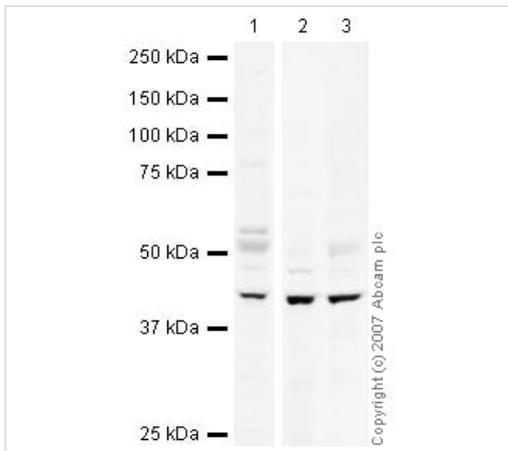
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa

**Exposure time:** 30 seconds



Western blot - Anti-Ihh antibody (ab39634)

**All lanes :** Anti-Ihh antibody (ab39634) at 1 µg/ml

**Lane 1 :** Brain (Mouse) Tissue Lysate

**Lane 2 :** Mouse colon tissue lysate - total protein ([ab29544](#))

**Lane 3 :** NIH/3T3 whole cell lysate ([ab7179](#))

Lysates/proteins at 10 µg per lane.

### Secondary

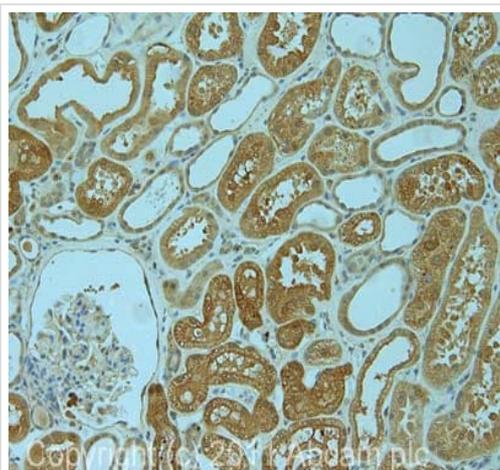
**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 45 kDa

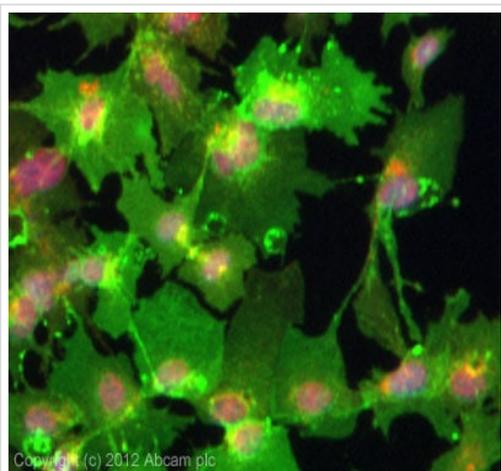
**Observed band size:** 42 kDa

The Ihh protein has a predicted molecular weight of 45 kDa. The first 27 amino acids of the Ihh sequence act as a signal sequence, and when cleaved the protein has an expected molecular weight of 42 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ihh antibody (ab39634)

IHC image of Ihh staining in human normal kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab39634, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence - Anti-Ihh antibody (ab39634)

ICC/IF image of ab39634 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab39634, 1µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 100% methanol fixed (5 min) HepG2 cells at 5µg/ml.

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