

Product datasheet

Anti-Ihh antibody ab39634

★★★★★ 3 Abreviews 24 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
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 conjugated to KLH derived from within residues 350 to the C-terminus of Mouse Ihh.参阅Abcam的专有抗源政策(Peptide available as ab39633 .)
阳性对照	Brain (Mouse) Tissue Lysate Colon (Mouse) Tissue Lysate - normal tissue NIH 3T3 (Mouse embryonic fibroblast cell line) Whole cell lysate

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	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab39634** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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).

应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P	★★★★★	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



Western blot - Anti-Ihh antibody (ab39634)

Anti-Ihh antibody (ab39634) at 1 μ g/ml + Lung
(Human) Whole Cell Lysate - fetal normal
tissue (ab30282) at 10 μ g

Secondary

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

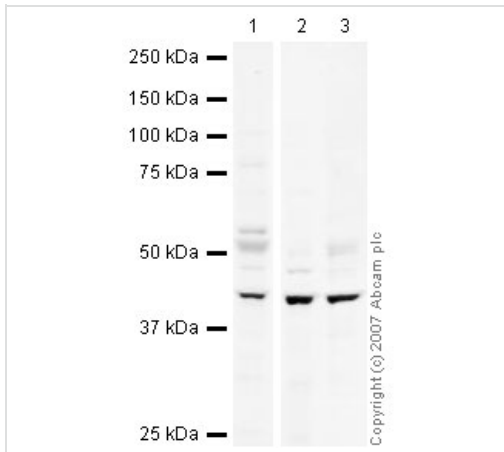
Developed using the ECL technique.

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 μ g/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 μ g per lane.

Secondary

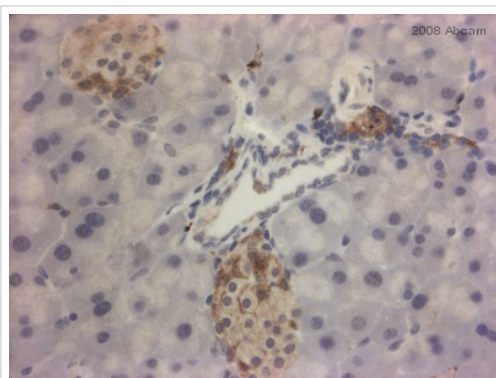
All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 45 kDa

Observed band size: 42 kDa

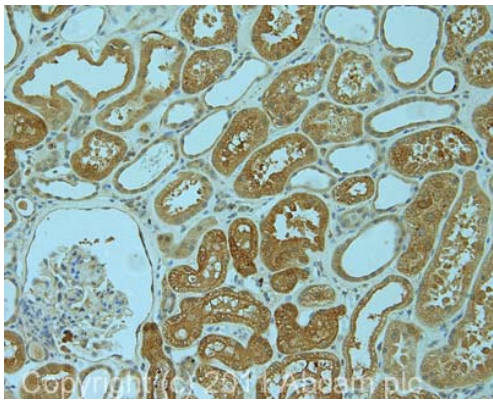
The Ihh protein has a predicted molecular weight of 45 kDa. The first 27 amino acids of the Ihh sequence act as a signal sequence, and when cleaved the protein has an expected molecular weight of 42 kDa.



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

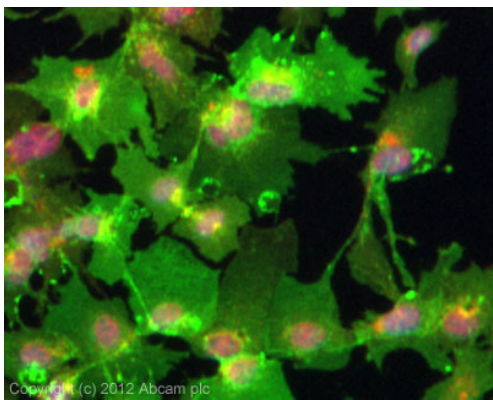
This image is courtesy of an Abreview submitted by Antibody Solutions Ltd.

ab39634 (1/50) staining Ihh 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-lhh antibody (ab39634)

IHC image of lhh 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-lhh 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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