abcam

Product datasheet

Anti-CYP1B1 antibody ab32649

★★★★★ 2 Abreviews 5 References 3 图像

概述

产品名称	Anti-CYP1B1抗体
描述	**兔多克隆抗体**to CYP1B1
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human CYP1B1.参阅Abcam**的专有抗源政策**(Peptide available as ab33584.)
阳性对照	Ab32649 gave a positive signal in the following human tissue lysates: Brain; Kidney; Liver. This antibody gave a positive result in IF in the following formaldehyde fixed cell lines: HeLa.

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 **ab32649** 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
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 70 kDa (predicted molecular weight: 61 kDa).

应用	Ab评论	说明
IHC-P	★★★★☆	1/1500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

功能

Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.
Participates in the metabolism of an as-yet-unknown biologically active molecule that is a participant in eye development.

组织特异性

Expressed in many tissues.

疾病相关

Defects in CYP1B1 are the cause of primary congenital glaucoma type 3A (GLC3A) [MIM:231300]. GLC3A is an autosomal recessive form of primary congenital glaucoma (PCG). PCG is characterized by marked increase of intraocular pressure at birth or early childhood, large ocular globes (buphthalmos) and corneal edema. It results from developmental defects of the trabecular meshwork and anterior chamber angle of the eye that prevent adequate drainage of aqueous humor.
Defects in CYP1B1 are a cause of primary open angle glaucoma (POAG) [MIM:137760]. POAG is a complex and genetically heterogeneous ocular disorder characterized by a specific pattern of optic nerve and visual field defects. The angle of the anterior chamber of the eye is open, and usually the intraocular pressure is increased. The disease is asymptomatic until the late stages, by which time significant and irreversible optic nerve damage has already taken place. In some cases, POAG shows digenic inheritance involving mutations in CYP1B1 and MYOC genes.
Defects in CYP1B1 are a cause of Peters anomaly (PAN) [MIM:604229]. Peters anomaly is a congenital defect of the anterior chamber of the eye.

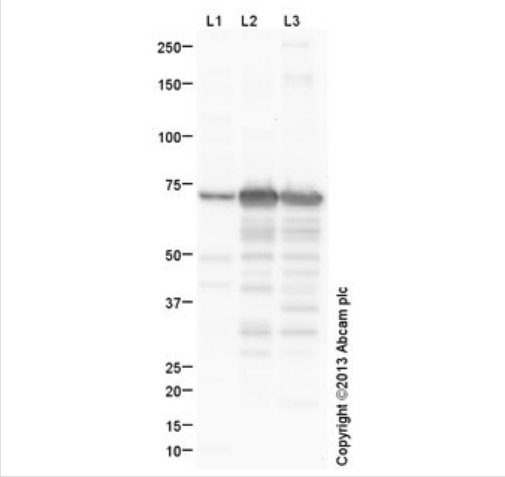
序列相似性

Belongs to the cytochrome P450 family.

细胞定位

Endoplasmic reticulum membrane. Microsome membrane.

图片



Western blot - Anti-CYP1B1 antibody (ab32649)

All lanes : Anti-CYP1B1 antibody (ab32649) at 1 µg/ml

Lane 1 : Brain (Human) Tissue Lysate - adult normal tissue
Lane 2 : Kidney (Human) Tissue Lysate - adult normal tissue
Lane 3 : Liver (Human) Tissue Lysate - adult normal tissue

Lysates/proteins at 10 µg per lane.

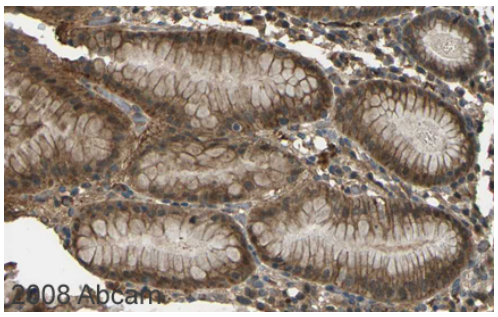
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 61 kDa
Additional bands at: 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP1B1 antibody (ab32649)

Image courtesy of Human Protein Atlas

ab32649 staining CYP1B1 in human stomach. Paraffin embedded human stomach tissue was incubated with ab32649 (1/1500 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

ab32649 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines. Further results for this antibody can be found at www.proteinatlas.org

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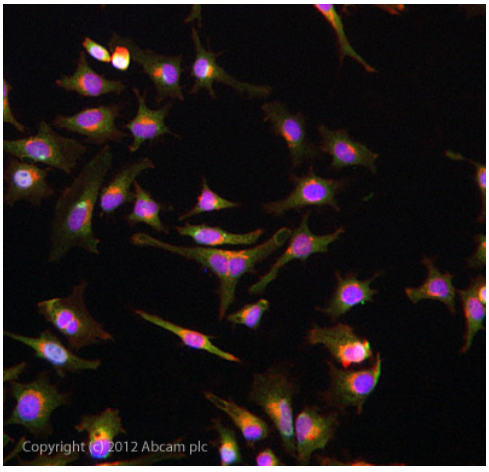

Immunocytochemistry/ Immunofluorescence - Anti-CYP1B1 antibody (ab32649)

ICC/IF image of ab32649 stained HeLa cells. The cells were 4% formaldehyde fixed (5 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 ab32649 at 1µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/1000 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.

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