


Anti-CYP1B1 antibody [EPR14972] - C-terminal ab185954

敲除验证 重组 RabMAb

16 References 3 图像

概述	
产品名称	Anti-CYP1B1抗体[EPR14972] - C-terminal
描述	兔单克隆抗体[EPR14972] to CYP1B1 - C-terminal
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt
种属反应性	与反应: Rat, Human 预测可用于: Mouse 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human renal adenocarcinoma tissue. WB: Human breast cancer, fetal kidney and fetal brain lysate; Rat brain and spleen lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR14972

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab185954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		1/1000 - 1/10000. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明

Is unsuitable for Flow Cyt.

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.

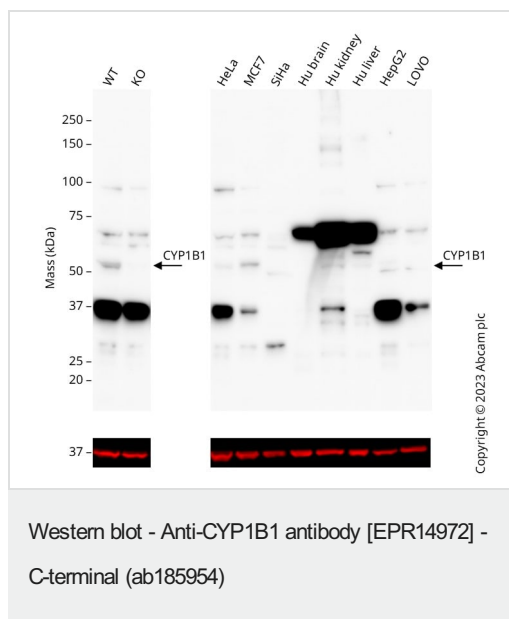
序列相似性

Belongs to the cytochrome P450 family.

细胞定位

Endoplasmic reticulum membrane. Microsome membrane.

图片



All lanes : Anti-CYP1B1 antibody [EPR14972] - C-terminal (ab185954) at 1/5000 dilution

Lane 1 : Wild-type A549 cell lysate

Lane 2 : CYP1B1 knockout A549 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : MCF7 cell lysate

Lane 5 : SiHa cell lysate

Lane 6 : Human Brain cell lysate

Lane 7 : Human Kidney cell lysate

Lane 8 : Human Liver cell lysate

Lane 9 : HepG2 cell lysate

Lane 10 : LoVo cell lysate

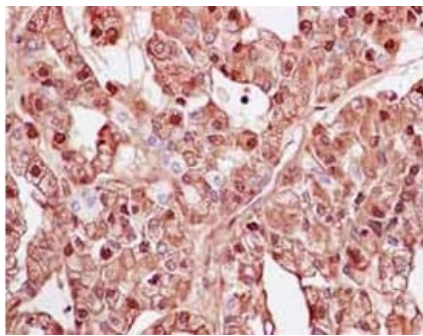
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 61 kDa

Observed band size: 55 kDa

Western blot: Anti-CYP1B1 antibody [EPR14972] (ab185954) staining at 1/5000 dilution, shown in black; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab185954 was shown to bind specifically to CYP1B1. A band was observed at 55 kDa in wild-type A549 cell lysates with no signal observed at this size in CYP1B1 knockout cell line [ab269476](#) (knockout cell lysate [ab269641](#)). To generate this image, wild-type and CYP1B1 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with a high-sensitivity ECL substrate kit and imaged with 8 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP1B1 antibody [EPR14972] - C-terminal (ab185954)

Immunohistochemical analysis of paraffin-embedded Human renal adenocarcinoma tissue labeling CYP1B1 with ab185954 at 1/500 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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