abcam

Product datasheet

Recombinant Human CYP1B1 protein ab114353

1 图像

描述

产品名称	重组人CYP1B1蛋白
表达系统	Wheat germ
Accession	Q16678
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	NKDLTSRVMIFSVGKRRCIGEELSKMQLFLFISILAHQCDFR ANPNEPAK MNFSYGLTIKPKSFKVNVTLRESMELLDSAVQNLQAKETC
预测分子量	36 kDa including tags
氨基酸	453 to 542

技术指标

Our **Abpromise guarantee** covers the use of **ab114353** in the following tested applications.

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

应用	ELISA SDS-PAGE Western blot
形式	Liquid

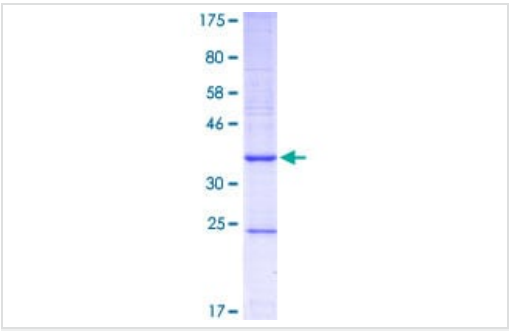
制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

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



SDS-PAGE - Recombinant Human CYP1B1 protein (ab114353)

ab114353 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

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