

Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] ab124921

 **RabMAb**

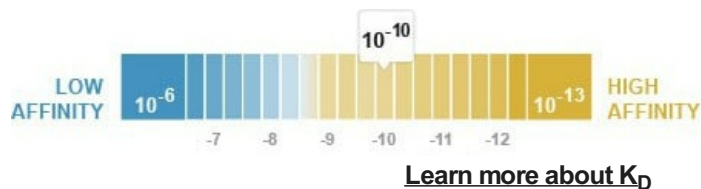
★★★★★ **1 Abreviews** **12 References** **8 图像**

概述

产品名称	Anti-Cytochrome P450 3A4/CYP3A4抗体[EPR6202]
描述	兔单克隆抗体[EPR6202] to Cytochrome P450 3A4/CYP3A4
宿主	Rabbit
特异性	Cross-reactivity with other CYP3A family: ab124921 has high possibility of reacting with CYP3A7 based on our internal test.
经测试应用	适用于: WB, IP, IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human Cytochrome P450 3A4/CYP3A4 aa 450-550 (C terminal). The exact sequence is proprietary. (Peptide available as ab234892)
阳性对照	WB: Human fetal and liver cell lysates IHC-P: Human liver tissue IP: Human liver cell lysates
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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. Avoid freeze / thaw cycle.
解离常数 (K _D)	K _D = 2.63 x 10 ⁻¹⁰ M



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	EPR6202
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab124921 于以下的经测试应用

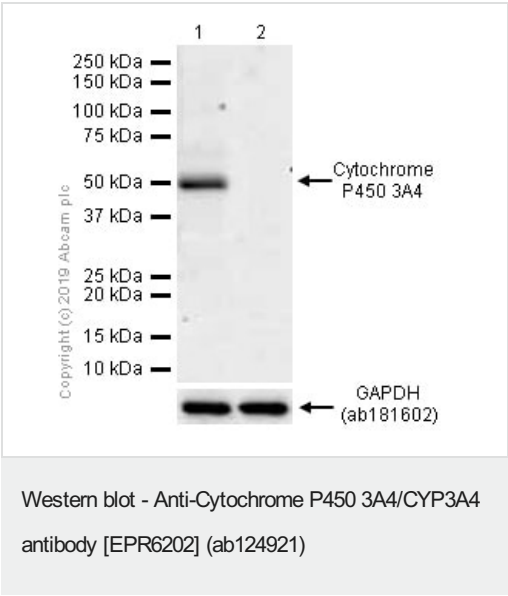
“应用说明”部分 下显示的仅为推荐的起始稀释度; 实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 57 kDa. For unpurified use at 1/10000 - 1/50000 dilution.
IP		1/10 - 1/100.
IHC-P		1/400. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250 dilution. See IHC antigen retrieval protocols

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 performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulfoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. The enzyme also hydroxylates etoposide.
组织特异性	Expressed in prostate and liver. According to some authors, it is not expressed in brain (PubMed:19094056). According to others, weak levels of expression are measured in some brain locations (PubMed:19359404 and PubMed:18545703). Also expressed in epithelium of the small intestine and large intestine, bile duct, nasal mucosa, kidney, adrenal cortex, epithelium of the gastric mucosa with intestinal metaplasia, gallbladder, intercalated ducts of the pancreas, chief cells of the parathyroid and the corpus luteum of the ovary (at protein level).
序列相似性	Belongs to the cytochrome P450 family.
翻译后修饰	Polyubiquitinated in the presence of AMFR and UBE2G1 and also STUB1/CHIP and UBE2D1 (in vitro).

图片



All lanes : Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921) at 1/1000 dilution (Purified)

Lane 1 : Human liver lysates

Lane 2 : HepG2 (Human hepatocellular carcinoma epithelial cell), Whole cell lysate

Lysates/proteins at 20 µg per lane.

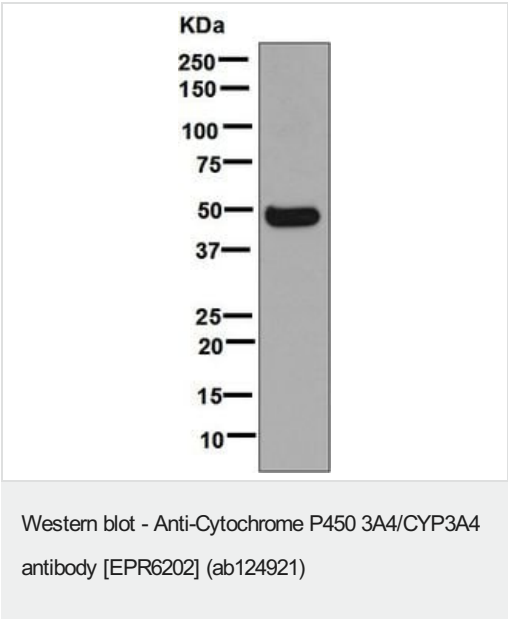
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 57 kDa

Observed band size: 50 kDa

This antibody fails to detect BOI in normal HepG2 cells which is positive reported by PMID 26089940 and 25141173

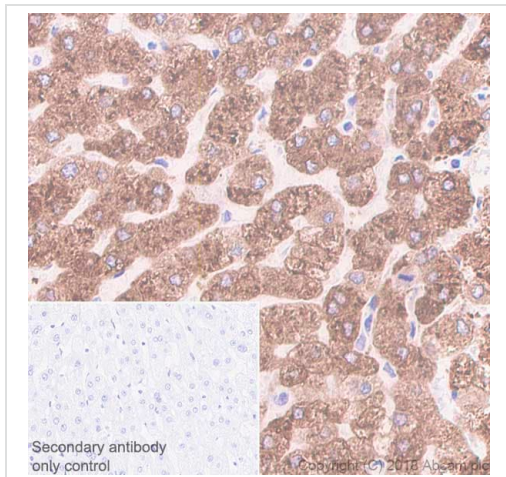


Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921) at 1/10000 dilution ((unpurified)) + Human fetal liver lysate at 10 µg

Secondary

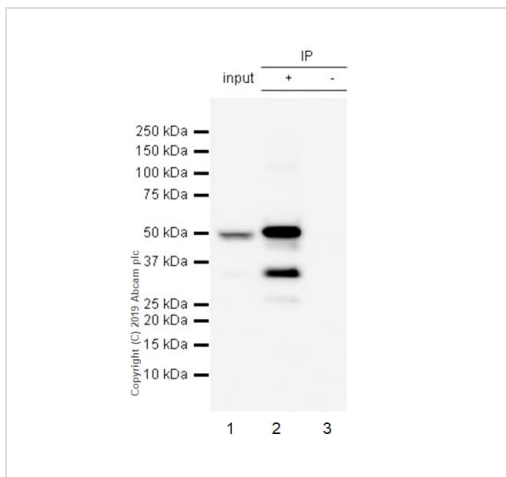
HRP labelled goat anti rabbit at 1/2000 dilution

Predicted band size: 57 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling Cytochrome P450 3A4/CYP3A4 with purified ab124921 at 1/400 dilution (0.35 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunoprecipitation - Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921)

ab124921 (purified) at 1/20 dilution (1ug) immunoprecipitating Cytochrome P450 3A4/CYP3A4 in Human liver lysates.

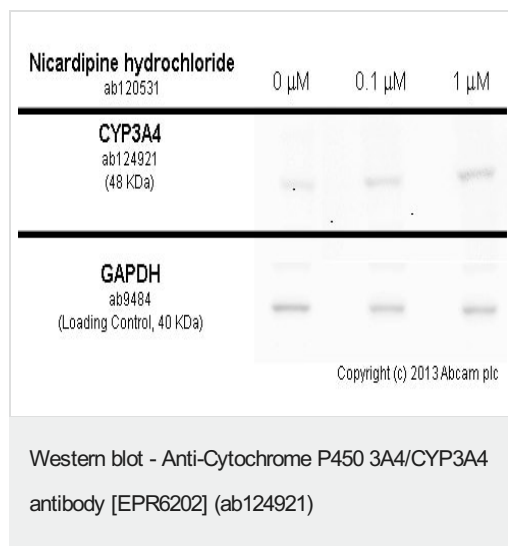
Lane 1: Human liver lysates 10ug

Lane 2 (+): ab124921 & Human liver lysates

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab124921 in Human liver lysates

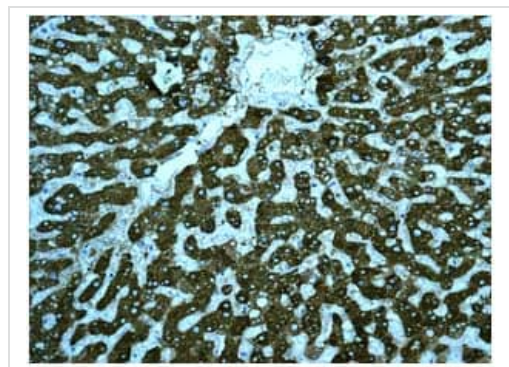
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



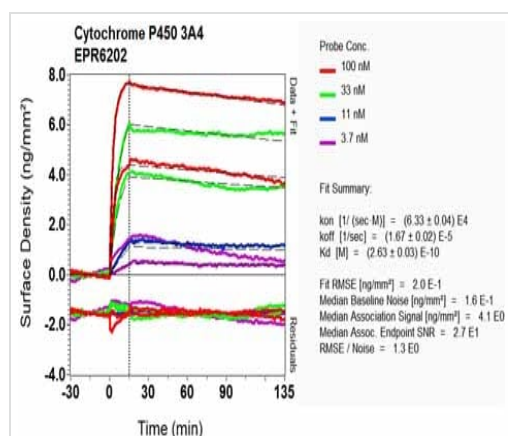
HepG2 cells were incubated at 37°C for 48h with vehicle control (0 μM) and different concentrations of nicardipine hydrochloride (**ab120531**) in DMSO. Increased expression of Cytochrome P450 3A4/CYP3A4 (ab124921, unpurified) correlates with an increase in nicardipine hydrochloride concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with ab124921 (unpurified) at 1/10000 dilution and **ab9484** at 1 μg /ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921)

ab124921 (unpurified), at a 1/100 dilution, staining Cytochrome P450 3A4/CYP3A4 in paraffin embedded Human liver tissue by Immunohistochemistry.



OI-RD Scanning - Anti-Cytochrome P450 3A4/CYP3A4 antibody [EPR6202] (ab124921)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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Anti-Cytochrome P450 3A4/CYP3A4 antibody
[EPR6202] (ab124921)

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