# abcam

# **Product datasheet**

# Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] ab151728

重组 RabMAb

# <u>4 References</u> 7 图像

概述	
产 <b>品名称</b>	Anti-Cytochrome P450 1A2 <b>抗体</b> [EPR6138(2)]
描述	<b>兔</b> 单 <b>克隆抗体</b> [EPR6138(2)] to Cytochrome P450 1A2
宿主	Rabbit
经测试应 <b>用</b>	适用于: Flow Cyt (Intra), WB, ICC/IF 不适用于: IHC-P or IP
<b>种属反</b> 应性	与反应: Human
免疫原	Synthetic peptide within Human Cytochrome P450 1A2 aa 200-300. The exact sequence is proprietary.
<b>阳性</b> 对 <b>照</b>	WB: Caco2, HepG2, HeLa and A549 cell lysates. ICC/IF: HeLa cells. Flow Cyt (intra): MCF7 cells.
<b>常</b> 规说 <b>明</b>	<ul> <li>This product is a recombinant monoclonal antibody, which offers several advantages including:</li> <li>High batch-to-batch consistency and reproducibility</li> <li>Improved sensitivity and specificity</li> <li>Long-term security of supply</li> <li>Animal-free production</li> <li>For more information <u>see here</u>.</li> <li>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb<sup>®</sup> patents</u>.</li> <li>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</li> </ul>

性能	
形式	Liquid
存 <b>放</b> 说明	Shipped at 4°C. Store at -20°C.
存储溶液	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯 <b>度</b>	Protein A purified
克隆	单 <b>克隆</b>

### 应**用**

# The Abpromise guarantee Abpromise ™承诺保证使用ab151728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。

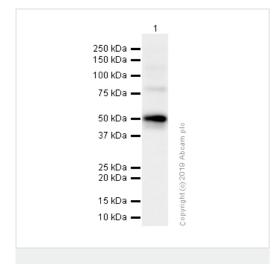
应用	Ab评论	说 <b>明</b>
Flow Cyt (Intra)		1/100 - 1/10000. <u>ab172730</u> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 58 kDa.
ICC/IF		1/200 - 1/500.

应**用**说明

Is unsuitable for IHC-P or IP.

<b>靶</b> 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. Most active in catalyzing 2-hydroxylation. Caffeine is metabolized primarily by cytochrome CYP1A2 in the liver through an initial N3-demethylation. Also acts in the metabolism of aflatoxin B1 and acetaminophen. Participates in the bioactivation of carcinogenic aromatic and heterocyclic amines. Catalizes the N-hydroxylation of heterocyclic amines and the O-deethylation of phenacetin.
组织 <b>特异性</b>	Liver.
序列相似性	Belongs to the cytochrome P450 family.
细 <b>胞定位</b>	Endoplasmic reticulum membrane. Microsome membrane.

图片

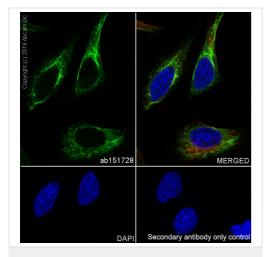


Western blot - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) at 1/2000 dilution (Purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates at 15 µg

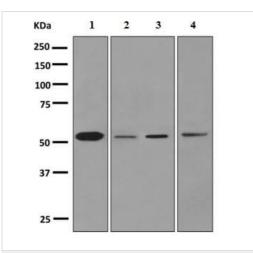
#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 58 kDa Observed band size: 58 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Cytochrome P450 1A2 with purified ab151728 at 1/200 dilution (9.4 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728)

**All lanes :** Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) at 1/1000 dilution ((unpurified))

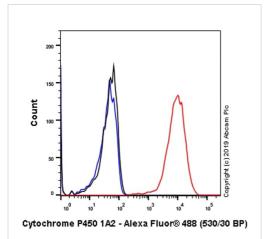
Lane 1 : Caco2 cell lysate Lane 2 : HepG2 cell lysate Lane 3 : HeLa cell lysate Lane 4 : A549 cell lysate

Lysates/proteins at 10 µg per lane.

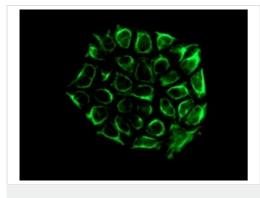
#### Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

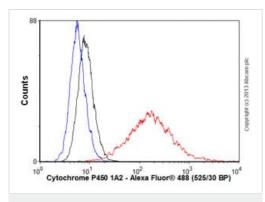
Predicted band size: 58 kDa



Flow Cytometry (Intracellular) - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Cytochrome P450 1A2 with purified ab151728 at 1/200 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728)



Flow Cytometry (Intracellular) - Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728) Immunofluorescent analysis of HeLa cells labeling Cytochrome P450 1A2 with unpurified ab151728 at 1/250 dilution.

Overlay histogram showing MCF7 cells stained with unpurified ab151728 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific proteinprotein interactions followed by the antibody (ab151728, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor<sup>®</sup> 488 goat anti-rabbit lgG (H&L) (<u>ab150077</u>) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in MCF7 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Why choose  $\alpha$ recombinant antibody? Research with Long-term and confidence scalable supply Consistent and Recombinant reproducible results technology Success from the Ethical standards first experiment compliant Confirmed Animal-free specificity production

Anti-Cytochrome P450 1A2 antibody [EPR6138(2)] (ab151728)

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