abcam

Product datasheet

Anti-P Glycoprotein antibody [EPR10364] ab168337

敲除验证 重组 RabMAb

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概述

产品名称	Anti-P Glycoprotein抗体[EPR10364]
描述	兔单克隆抗体[EPR10364] to P Glycoprotein
宿主	Rabbit
特异性	P-glycoprotein 1 (also known as Multidrug resistance protein 1) has a predicted molecular weight of 141 kDa, however it has 3 potential glycosylation sites (N-linked) which may affect the migration of the protein. In our hands ab168337 detects a predominant protein band migrating in the region of 180-200 kDa and typically will demonstrate a smear on the membrane in the region of the 150 – 300 kDa due to the glycosylation profile of the protein. It may be necessary to optimise your cell or tissue lysis protocol to efficiently extract P-glycoprotein 1 as it is a multi-pass membrane protein. Abcam recommends not boiling the sample after lysis.
经测试应用	**适用于:** WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment corresponding to Human P Glycoprotein.
阳性对照	HeLa, HepG2, 293T, C6 and Human fetal brain and Mouse brain lysates, Human kidney & liver tissue
常规说明	The mouse and rat recommendation is based on the WB results. This antibody may not be suitable for IHC with mouse or rat samples. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

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	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR10364
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab168337于以下的经测试应用**

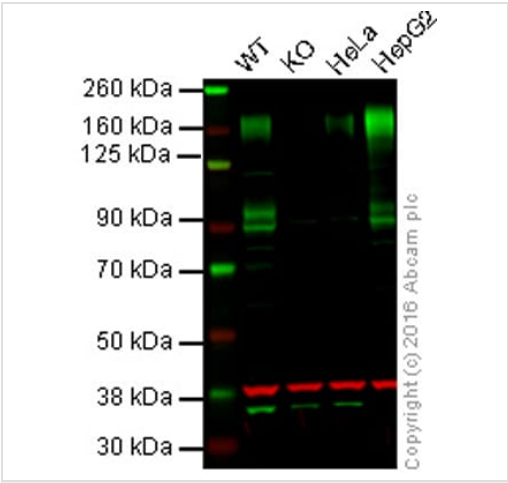
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★☆☆☆☆ (1)	1/2000. Predicted molecular weight: 141 kDa. For optimal detection Abcam recommends not boiling the sample after lysis.
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

靶标

功能	Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells.
组织特异性	Expressed in liver, kidney, small intestine and brain.
疾病相关	Genetic variations in ABCB1 are associated with susceptibility to inflammatory bowel disease type 13 (IBD13) [MIM:612244]. Inflammatory bowel disease is characterized by a chronic relapsing intestinal inflammation. It is subdivided into Crohn disease and ulcerative colitis phenotypes. Crohn disease may involve any part of the gastrointestinal tract, but most frequently the terminal ileum and colon. Bowel inflammation is transmural and discontinuous; it may contain granulomas or be associated with intestinal or perianal fistulas. In contrast, in ulcerative colitis, the inflammation is continuous and limited to rectal and colonic mucosal layers; fistulas and granulomas are not observed. Both diseases include extraintestinal inflammation of the skin, eyes, or joints. Crohn disease and ulcerative colitis are commonly classified as autoimmune diseases.
序列相似性	Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily. Contains 2 ABC transmembrane type-1 domains. Contains 2 ABC transporter domains.
细胞定位	Membrane.

图片

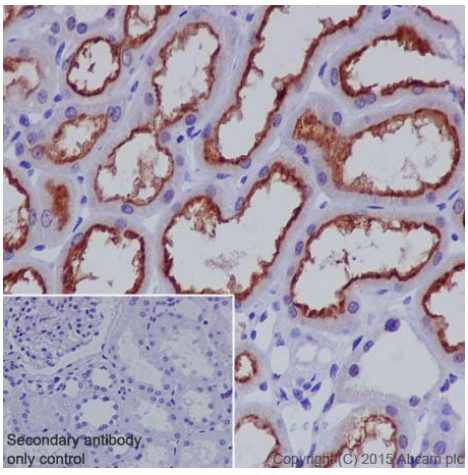


Western blot - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: P glycoprotein knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: HepG2 cell lysate (20 µg)

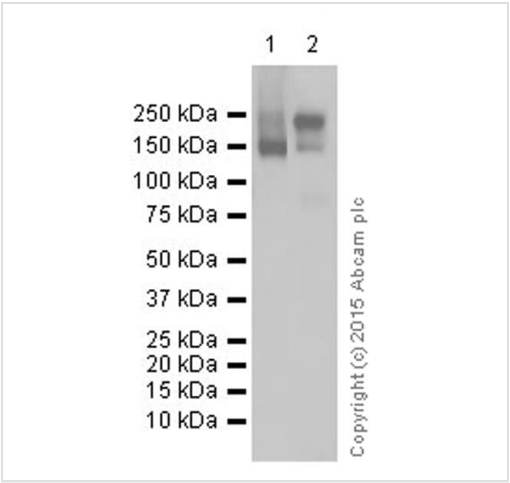
Lanes 1 - 4: Merged signal (red and green). Green - ab168337 observed at 160 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab168337 was shown to recognize P glycoprotein when P glycoprotein knockout samples were used, along with additional cross-reactive bands. Wild-type and P glycoprotein knockout samples were subjected to SDS-PAGE. ab168337 and **ab8245** (loading control to GAPDH) were diluted 1/500 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling P Glycoprotein with purified ab168337 at 1/100 dilution (14 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. **ab97051**, a Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1/500 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

All lanes : Anti-P Glycoprotein antibody [EPR10364] (ab168337) at 1/2000 dilution (purified)

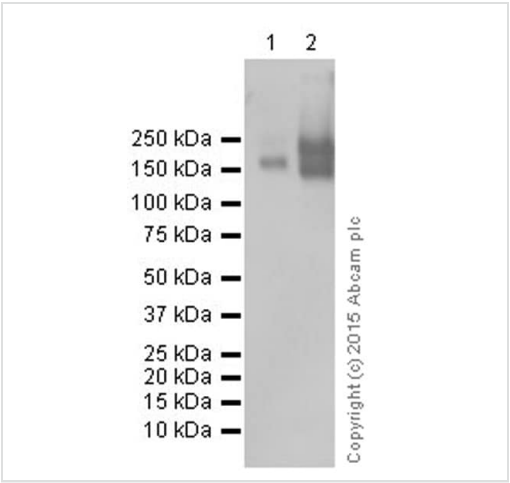
Lane 1 : Mouse brain lysate
Lane 2 : C6 (Rat glial tumor cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 141 kDa
Observed band size: 180 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

All lanes : Anti-P Glycoprotein antibody [EPR10364] (ab168337) at 1/2000 dilution (purified)

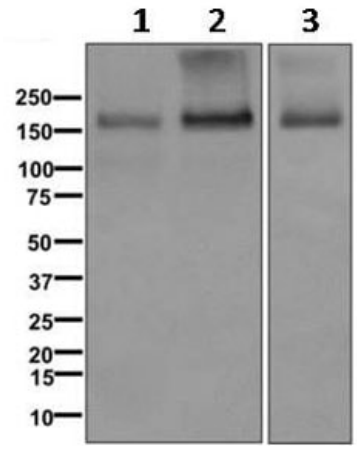
Lane 1 : HeLa (human cervix adenocarcinoma) whole cell lysate
Lane 2 : HepG2 (human hepatocellular carcinoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 141 kDa
Observed band size: 180 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



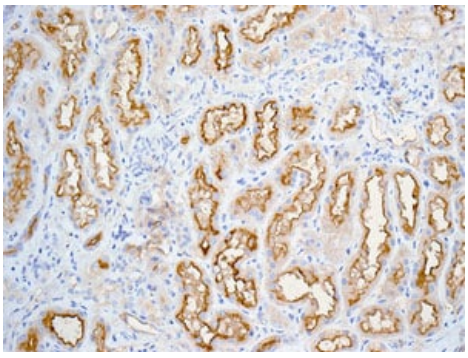
Western blot - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

All lanes : Anti-P Glycoprotein antibody [EPR10364] (ab168337) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysates
Lane 2 : 293T cell lysates
Lane 3 : Human fetal brain lysates

Lysates/proteins at 10 µg per lane.

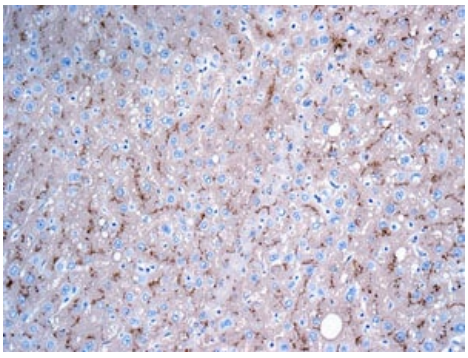
Predicted band size: 141 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling P Glycoprotein with unpurified ab168337 at 1/50 dilution.

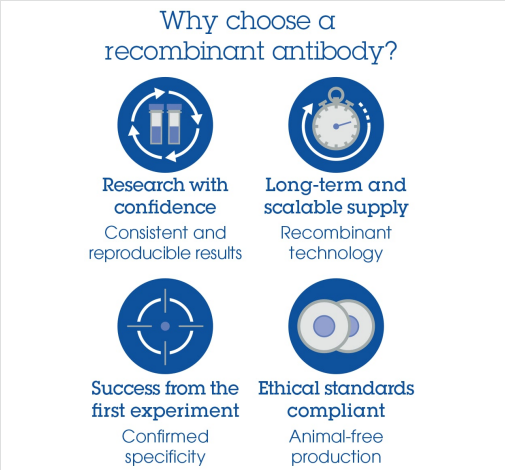
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364] (ab168337)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling P Glycoprotein with unpurified ab168337 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Anti-P Glycoprotein antibody [EPR10364]

(ab168337)

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