

Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free ab216656

敲除验证
重组
RabMAb

[7 References](#)
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概述

| | |
|--------------|---|
| 产品名称 | Anti-P Glycoprotein抗体[EPR10364-57] - BSA and Azide free |
| 描述 | 兔单克隆抗体[EPR10364-57] to P Glycoprotein - BSA and Azide free |
| 宿主 | Rabbit |
| 特异性 | <p>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 this antibody 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. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.</p> |
| 经测试应用 | <p>适用于: WB, IHC-P</p> <p>不适用于: ICC/IF</p> |
| 种属反应性 | 与反应: Mouse, Rat, Human |
| 免疫原 | <p>Recombinant fragment aa 350-750. The exact sequence is proprietary.</p> <p>Database link: P08183</p> |
| 阳性对照 | <p>WB: 293T, HeLa, HepG2 and 293T cell lysates; human fetal brain tissue lysate; mouse brain, heart, kidney and spleen tissue lysates; rat brain, heart, kidney and spleen tissue lysates. IHC-P: Human hepatocellular carcinoma, brain and kidney tissues.</p> |
| 常规说明 | <p>ab216656 is the carrier-free version of ab170904.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> |

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

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. Do Not Freeze. |
| 存储溶液 | pH: 7.20 Constituent: PBS |
| 无载体 | 是 |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | EPR10364-57 |
| 同种型 | IgG |

应用

The Abpromise guarantee **Abpromise[™]承诺保证使用ab216656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 | | Use at an assay dependent concentration. Predicted molecular weight: 141 kDa. For optimal detection Abcam recommends not boiling the sample after lysis. |
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . |

应用说明 Is unsuitable for ICC/IF.

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.

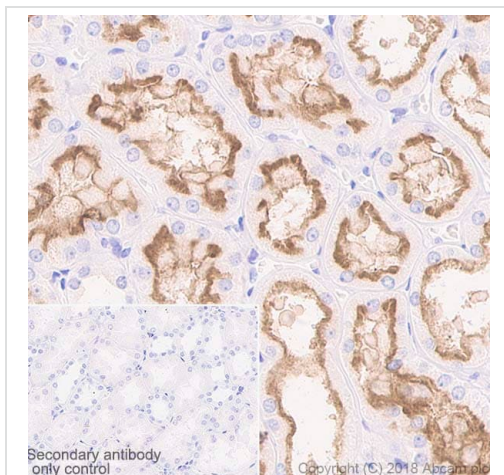
Contains 2 ABC transmembrane type-1 domains.

Contains 2 ABC transporter domains.

细胞定位

Membrane.

图片

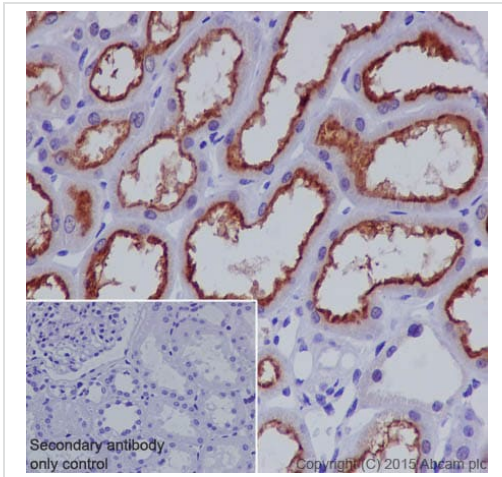


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling P Glycoprotein with purified **ab170904** at 1:1200 dilution (0.24 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0) ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Hematoxylin was used as a counterstain.

Negative control: PBS instead of the primary antibody (inset).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170904**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

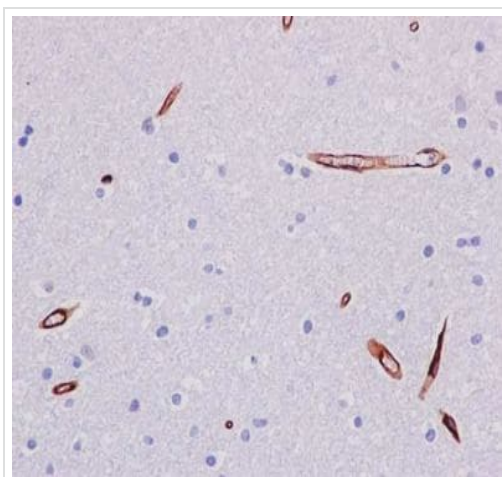


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

Immunohistochemical staining of paraffin embedded human kidney with purified **ab170904** at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. Counterstained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.

PBS was used instead of the primary antibody as the negative control (inset).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170904**).

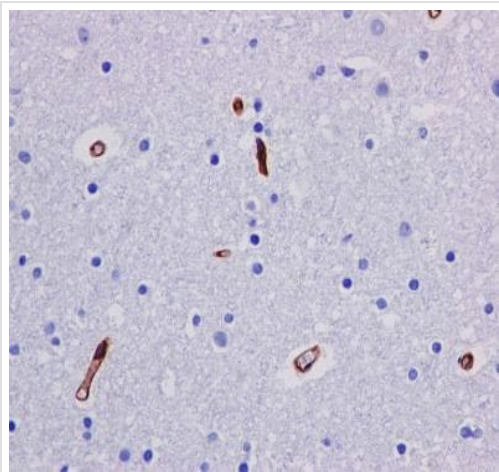


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human brain tissue labeling P Glycoprotein with purified **ab170904** at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody.

Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170904**).

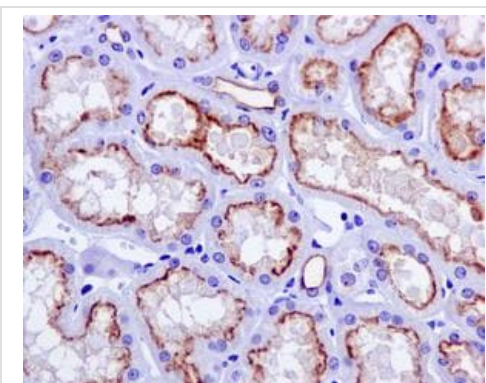


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human brain tissue labeling P Glycoprotein with unpurified **ab170904** at 1/20. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody.

Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170904**).

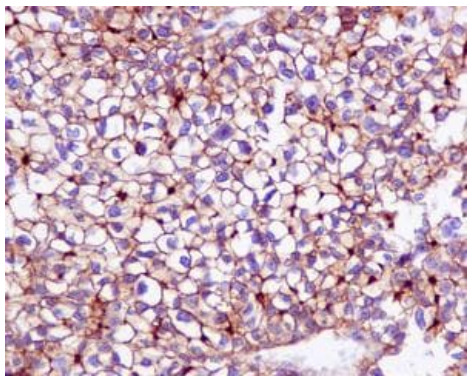


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis human kidney tissue labeling P Glycoprotein with unpurified **ab170904** at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170904**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

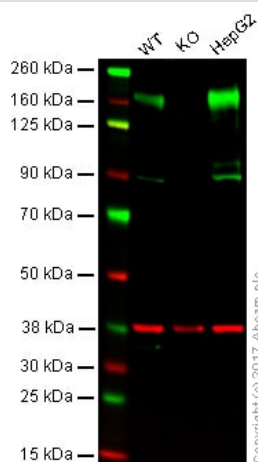


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

This IHC data was generated using the same anti-P Glycoprotein antibody clone, EPR10364-57, in a different buffer formulation (cat# **ab170904**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling P Glycoprotein with unpurified **ab170904** at 1/250 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-P Glycoprotein antibody [EPR10364-57] - BSA and Azide free (ab216656)

This WB data was generated using the same anti-P Glycoprotein antibody clone, EPR10364-57, in a different buffer formulation (cat# **ab170904**).

Lane 1: Wild type HAP1 whole cell lysate (20 µg)

Lane 2: P Glycoprotein knockout HAP1 whole cell lysate (20 µg)

Lane 3: HepG2 whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - **ab170904** observed at 160 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab170904 was shown to specifically react with P Glycoprotein when P Glycoprotein knockout samples were used. Wild-type and P Glycoprotein knockout samples were subjected to SDS-PAGE. Ab170904 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

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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