

### Anti-BCRP/ABCG2 antibody [EPR20080] ab207732

敲除验证
重组
RabMAb

★★★★☆
6 Abreviews
29 References
11 图像

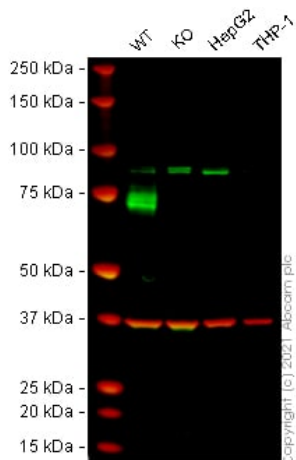
#### 概述

产品名称	Anti-BCRP/ABCG2抗体[EPR20080]
描述	兔单克隆抗体[EPR20080] to BCRP/ABCG2
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild-type A549, HepG2, THP-1 cell lysate; HepG2 whole cell lysate prepared in 1% SDS Hot Lysate buffer and boiled before loading; A549 whole cell lysate prepared in RIPA lysate buffer and not boiled before loading; Human placenta lysate. IHC-P: Human placenta, liver and glioma tissues; Mouse and rat liver tissues. Flow Cyt (intra): A549 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <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> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20080

同种型	IgG	
应用		
<div>The Abpromise guarantee</div> <div><b>Abpromise™</b>承诺保证使用ab207732于以下的经测试应用</div> <div>“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。</div>		
应用	Ab评论	说明
Flow Cyt (Intra)		1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (3)	1/1000. Detects a band of approximately 75 kDa (predicted molecular weight: 72 kDa). Sample preparation may require optimisation depending on the tissue/cell lysates.  We don't recommend this antibody for mouse and rat in WB. In our hands mouse and rat tissues showed additional bands.
IHC-P	★★★★★★ (1)	1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
靶标		
功能	Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. May be involved in brain-to-blood efflux. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123.	
组织特异性	Highly expressed in placenta. Low expression in small intestine, liver and colon.	
序列相似性	Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily. Contains 1 ABC transmembrane type-2 domain. Contains 1 ABC transporter domain.	
翻译后修饰	Glycosylation-deficient ABCG2 is normally expressed and functional.	
细胞定位	Cell membrane.	
图片		



Western blot - Anti-BCRP/ABCG2 antibody  
[EPR20080] (ab207732)

**All lanes :** Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)  
at 1/1000 dilution

**Lane 1 :** Wild-type A549 cell lysate

**Lane 2 :** ABCG2 knockout A549 cell lysate

**Lane 3 :** HepG2 cell lysate

**Lane 4 :** THP-1 cell lysate

Lysates/proteins at 20 µg per lane.

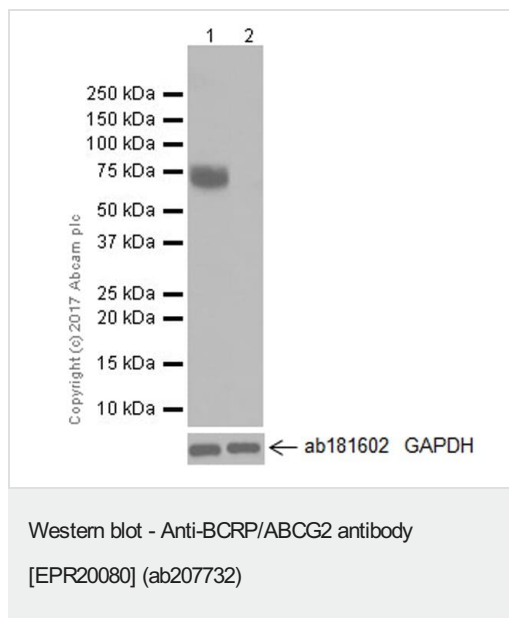
Performed under reducing conditions.

**Predicted band size:** 72 kDa

**Observed band size:** 70 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab207732 observed at 70 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab207732 was shown to react with BCRP/ABCG2 in wild-type A549 cells in Western blot with loss of signal observed in ABCG2 knockout cell line **ab259773** (ABCG2 knockout cell lysate **ab259778**). Wild-type A549 and ABCG2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab207732 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 h at room temperature before imaging.



**All lanes :** Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732) at 1/1000 dilution

**Lane 1 :** HepG2 (human liver hepatocellular carcinoma cell line), whole cell lysate, the lysate was prepared in 1% SDS Hot Lysate buffer and boiled before loading

**Lane 2 :** Huh7 (human liver hepatocellular carcinoma epithelial cell line), whole cell lysate, the lysate was prepared in 1% SDS Hot Lysate buffer and boiled before loading

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 72 kDa

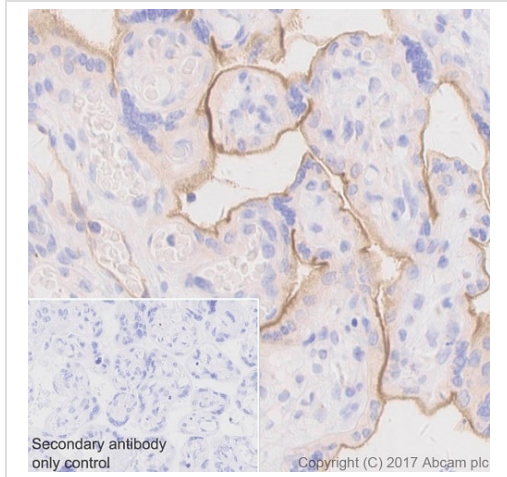
**Observed band size:** 75 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

For Lysate preparation protocol, please refer to the protocol book in the protocol section and/or [here \(downloadable copy\)](#).

**Negative control:** Huh7 (PMID: 26327240, PMID: 18820285).

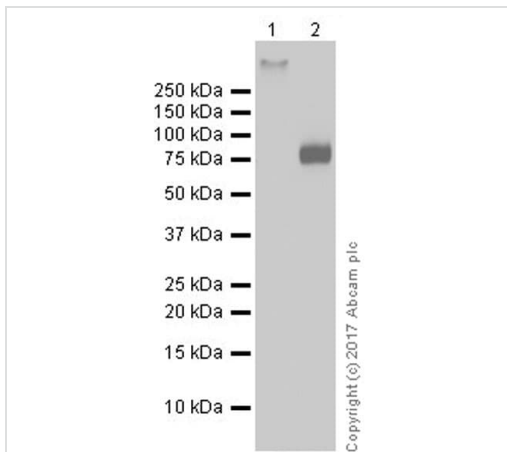


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling BCRP/ABCG2 with ab207732 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on human placenta (PMID: 12237881). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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



Western blot - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

**All lanes** : Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732) at 1/1000 dilution

**Lane 1** : A549 (human lung carcinoma cell line) whole cell lysate, the lysate was prepared in RIPA lysate buffer and boiled before loading

**Lane 2** : A549 (human lung carcinoma cell line) whole cell lysate, the lysate was prepared in RIPA lysate buffer and was not boiled before loading

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

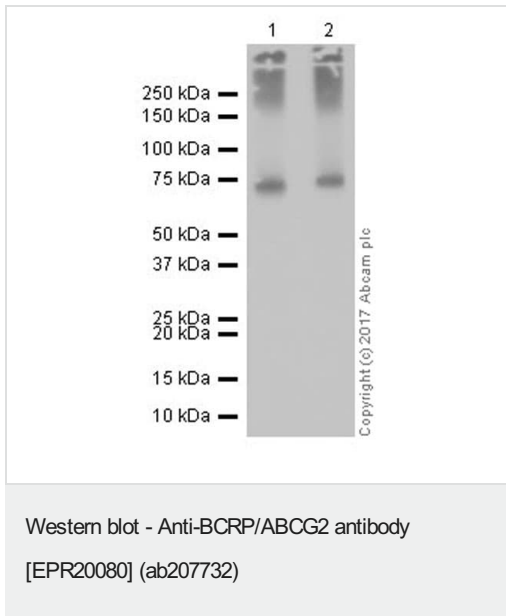
**Predicted band size:** 72 kDa

**Observed band size:** 75 kDa

**Exposure time:** 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

For Lysate preparation protocol, please refer to the protocol book in the protocol section and/or [here \(downloadable copy\)](#).



**All lanes :** Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732) at 1/1000 dilution

**Lane 1 :** Human placenta, the lysate was prepared in RIPA lysate buffer and boiled before loading

**Lane 2 :** Human placenta, the lysate was prepared in RIPA lysate buffer and was not boiled before loading

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

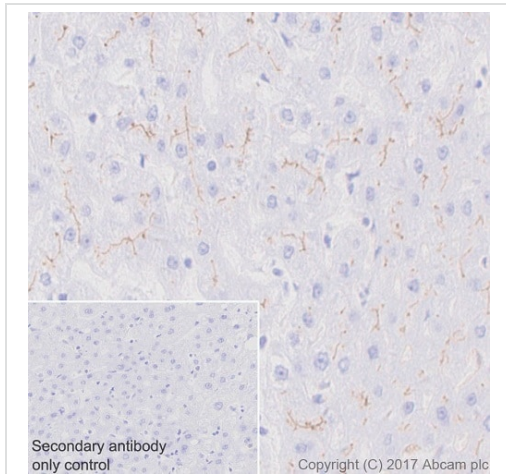
**Predicted band size:** 72 kDa

**Observed band size:** 75 kDa

**Exposure time:** 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

For Lysate preparation protocol, please refer to the protocol book in the protocol section and/or [here \(downloadable copy\)](#).

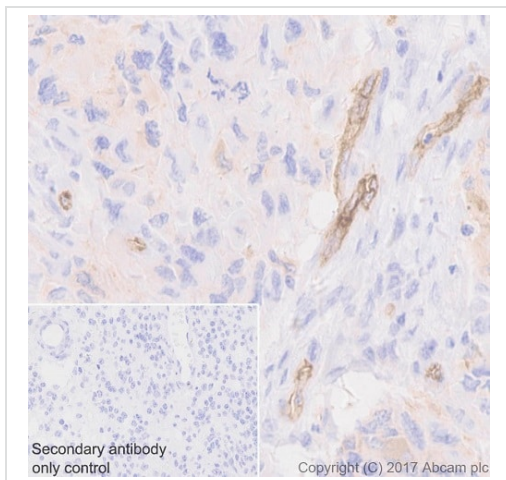


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling BCRP/ABCG2 with ab207732 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on biliary canaliculi of human liver (PMID: 12237881). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

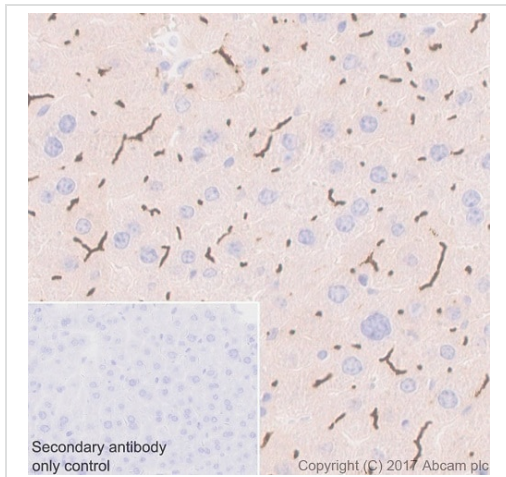


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Immunohistochemical analysis of paraffin-embedded human glioma tissue labeling BCRP/ABCG2 with ab207732 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on capillaries of human glioma (PMID: 20216549). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

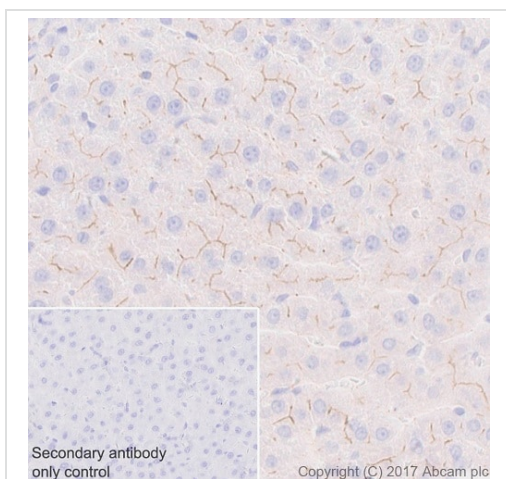


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling BCRP/ABCG2 with ab207732 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on biliary canaliculi of mouse liver (PMID: 12237881). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

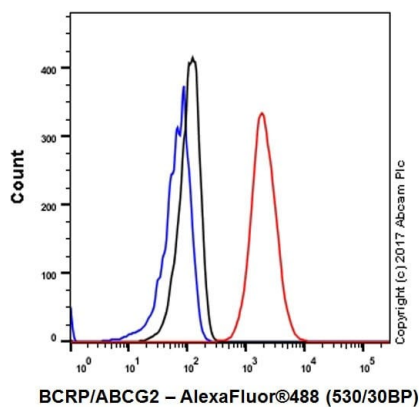


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling BCRP/ABCG2 with ab207732 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on biliary canaliculi of rat liver (PMID: 12237881). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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



Flow Cytometry (Intracellular) - Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed A549 (human lung carcinoma cell line) cell line labeling BCRP/ABCG2 with ab207732 at 1/100 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

#### 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

Anti-BCRP/ABCG2 antibody [EPR20080] (ab207732)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

#### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet

- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors