

Datasheet for ABIN3043967  
**anti-ABCB1 antibody (Middle Region)**

5 Images

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## Overview

Quantity:	100 µg
Target:	ABCB1
Binding Specificity:	AA 621-650, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCB1 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Multidrug resistance protein 1(ABCB1) detection. Tested with IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human P Glycoprotein(621-650aa IYFKLVMTQTAGNEVELENAADESKSEIDA), different from the related rat sequence by twelve amino acids.
Sequence:	IYFKLVMTQT AGNEVELENA ADESKSEIDA
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Multidrug resistance protein 1(ABCB1) detection. Tested with IHC-P, IHC-F in Human,Mouse,Rat.

## Product Details

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Gene Name: ATP-binding cassette, sub-family B (MDR/TAP), member 1

Protein Name: Multidrug resistance protein 1

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Purification: Immunogen affinity purified.

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## Target Details

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Target: ABCB1

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Alternative Name: ABCB1 ([ABCB1 Products](#))

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Background: P-GP, also called ABCB1 or PGY1, is a glycoprotein that in humans is encoded by the ABCB1 gene. It is mapped to 7q21.12. P-GP is a well-characterized ABC-transporter (which transports a wide variety of substrates across extra- and intracellular membranes) of the MDR/TAP subfamily. It is an important protein of the cell membrane that pumps many foreign substances out of cells. More formally, it is an ATP-dependent drug efflux pump with broad substrate specificity. P-GP is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier.

Synonyms: ABC20 antibody|ABCB1 antibody|ATP binding cassette, sub family B (MDR/TAP), member 1 antibody|ATP-binding cassette sub-family B member 1 antibody|CD243 antibody|CLCS antibody|Colchicin sensitivity antibody|Doxorubicin resistance antibody|GP170 antibody|MDR1 antibody|MDR1\_HUMAN antibody|Multidrug resistance 1 antibody|Multidrug resistance protein 1 antibody|P glycoprotein 1 antibody|P gp antibody|P-glycoprotein 1 antibody|PGY1 antibody

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Gene ID: 5243

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UniProt: [P08183](#)

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## Application Details

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Application Notes: IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

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## Application Details

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Comment: Antibody can be supported by ABIN921231 in IHC(P) and IHC(F).

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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Concentration: 500 µg/mL

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Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

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Preservative: Thimerosal (Merthiolate), Sodium azide

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Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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Handling Advice: Avoid repeated freezing and thawing.

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Storage: 4 °C/-20 °C

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Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

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## Publications

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Product cited in: Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from *Sargassum integerrimum* induces apoptosis in A549 cells and prevents angiogenesis in vitro and in vivo." in: **Scientific reports**, Vol. 6, pp. 26722, (2018) ([PubMed](#)).

Feng, Yan, Zhou, Liang, Liang, Zhao, Dong, Ling: "Pivl2 is reactivated by HPV oncoproteins and initiates cell reprogramming via epigenetic regulation during cervical cancer tumorigenesis." in: **Oncotarget**, Vol. 7, Issue 40, pp. 64575-64588, (2018) ([PubMed](#)).

Duan, Di: "Acetazolamide Suppresses Multi-Drug Resistance-Related Protein 1 and P-Glycoprotein Expression by Inhibiting Aquaporins Expression in a Mesial Temporal Epilepsy Rat Model." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 23, pp. 5818-5825, (2018) ([PubMed](#)).

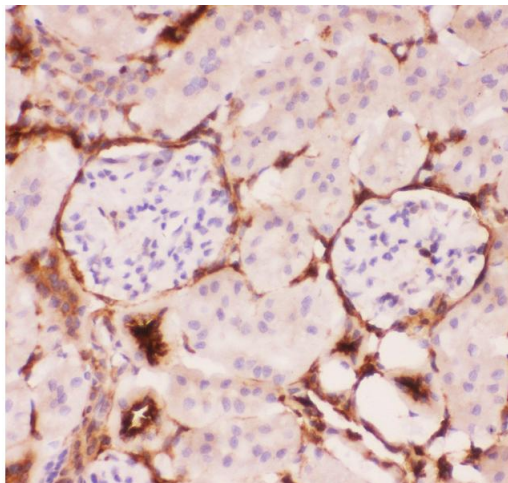
Liu, Wang, Kuang, Cao, Bao, Liu, Liu, Sun: "The natural compound GL22, isolated from Ganoderma mushrooms, suppresses tumor growth by altering lipid metabolism and triggering cell death." in: **Cell death & disease**, Vol. 9, Issue 6, pp. 689, (2018) ([PubMed](#)).

Deng, Li, Lin, Huang, Zeng, Wang, Li, Jin, Zhang, Li, Chen, Wang, Huang, Shao, Xu, Mao: "P-glycoprotein Mediates Postoperative Peritoneal Adhesion Formation by Enhancing Phosphorylation of the Chloride Channel-3." in: **Theranostics**, Vol. 6, Issue 2, pp. 204-18, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

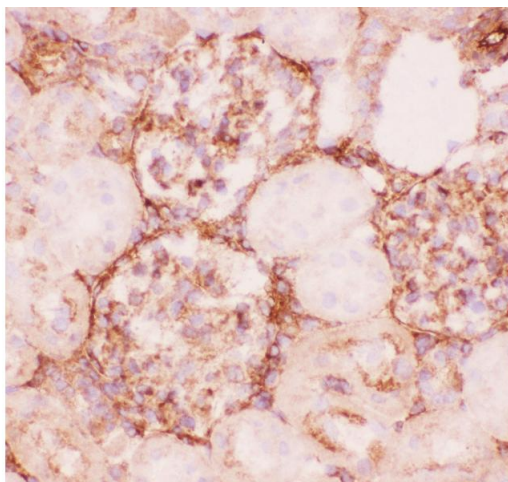
## Images

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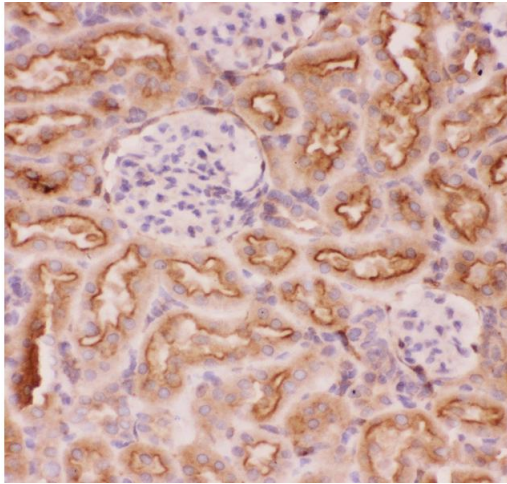
### Immunohistochemistry

**Image 1.** Anti-P Glycoprotein Picoband antibody, IHC(P):  
Mouse Kidney Tissue



### Immunohistochemistry

**Image 2.** Anti-P Glycoprotein Picoband antibody, IHC(F): Rat  
Kidney Tissue



### Immunohistochemistry

**Image 3.** Anti-P Glycoprotein Picoband antibody, IHC(P): Rat Kidney Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043967.