Datasheet for ABIN3043967

anti-ABCB1 antibody (Middle Region)

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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 IYFKLVTMQTAGNEVELENAADESKSEIDA), different from the related rat sequence by twelve amino acids.
Sequence:	IYFKLVTMQT 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.

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Product Details

	Gene Name: ATP-binding cassette, sub-family B (MDR/TAP), member 1 Protein Name: Multidrug resistance protein 1
Purification:	Immunogen affinity purified.

Target Details

Target:	ABCB1
Alternative Name:	ABCB1 (ABCB1 Products)
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 forxenobiotic 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
Gene ID:	5243
UniProt:	P08183

Application Details

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.

Application Details

Comment:	Antibody can be supported by ABIN921231 in IHC(P) and IHC(F).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
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.

Publications

Product cited in:	Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from Sargassum integerrimum induces apoptosis in A549 cells and prevents angiogensis in vitro and in vivo." in: **Scientific reports**, Vol. 6, pp. 26722, (2018) (PubMed). Feng, Yan, Zhou, Liang, Liang, Zhao, Dong, Ling: "Piwil2 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).

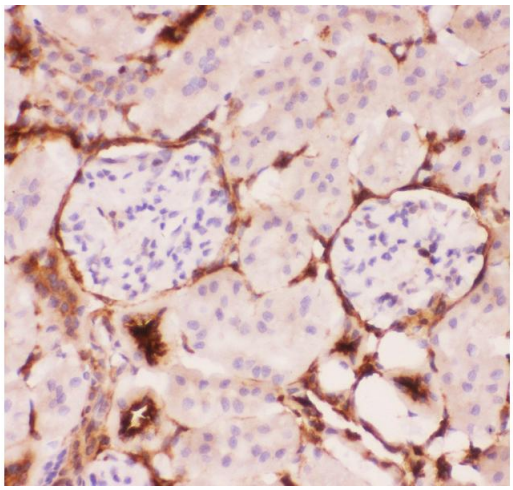
Publications

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).

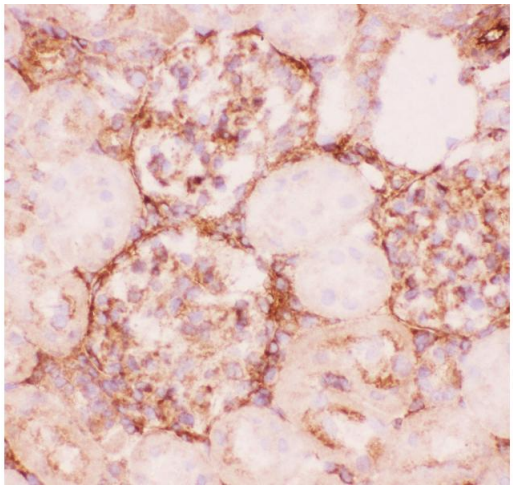
There are more publications referencing this product on: Product page

Images



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

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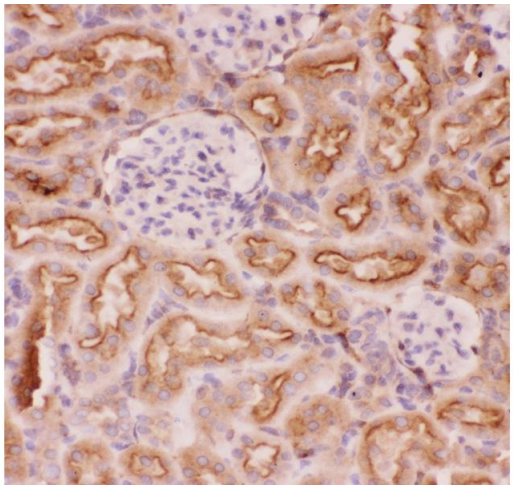

Immunohistochemistry

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.

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