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Datasheet for ABIN129711

anti-ABCB1 antibody (Internal Region)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	ABCB1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat, Dog, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 262-277 of human ABCB1 protein. Immunogen Type: Peptide
Isotype:	IgG
Specificity:	This affinity-purified antibody is directed against human ABCB1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross reactivity with ABCB1 protein from human, monkey, dog, mouse, and rat based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Characteristics:	ATP-Binding Cassette Sub-Family B Member 1 (ABCB1, also named P-glycoprotein) is a plasma

Product Details

membrane-associated multidrug transporter that utilizes the energy of ATP hydrolysis to pump toxic xenobiotics out of cells. Unique features of ABCB1 are its very broad substrate specificity and its basal ATPase activity in the absence of transport substrates. Human ABCB1 plays an important role in absorption, distribution, metabolism, excretion and toxicity of pharmacologically relevant drugs. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anti-cancer drugs. This protein also functions as a transporter across the blood-brain barrier.

Purification: affinity purified

Sterility: Sterile filtered

Target Details

Target: ABCB1

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

Background: ATP-Binding Cassette Sub-Family B Member 1 (ABCB1, also named P-glycoprotein) is a plasma membrane-associated multidrug transporter that utilizes the energy of ATP hydrolysis to pump toxic xenobiotics out of cells. Unique features of ABCB1 are its very broad substrate specificity and its basal ATPase activity in the absence of transport substrates. Human ABCB1 plays an important role in absorption, distribution, metabolism, excretion and toxicity of pharmacologically relevant drugs. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anti-cancer drugs. This protein also functions as a transporter across the blood-brain barrier.

Synonyms: ATP binding cassette sub family B MDR/TAP member 1 antibody, CD243 antibody, CD243 antigen antibody, CLCS antibody, GP170 antibody, MDR 1 antibody

Gene ID: 340273, 42741659

UniProt: [Q2M3G0](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and western blot.

Comment: Gene Name: ABCB1

Restrictions: For Research Use only

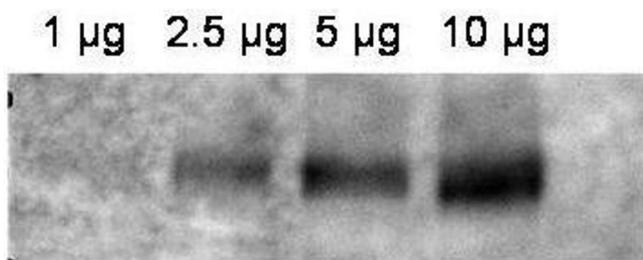
Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

Publications

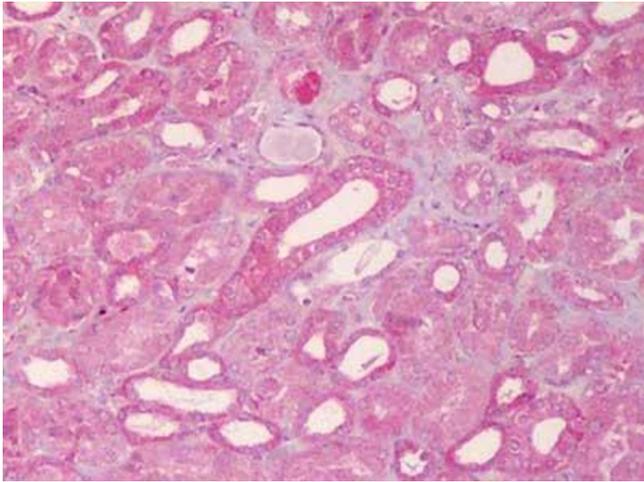
Product cited in:	Al-Shawi, Omote: "The remarkable transport mechanism of P-glycoprotein: a multidrug transporter." in: Journal of bioenergetics and biomembranes , Vol. 37, Issue 6, pp. 489-96, (2006) (PubMed).
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Images



Western Blotting

Image 1. Western blot using affinity purified anti-ABCB1 antibody shows detection of ABCB1 in crude membrane extracts from HF insect cells over-expressing human ABCB1. The extract was loaded onto a gel in the amounts indicated followed by electrophoresis and transfer to nitrocellulose. The membrane was probed with the primary antibody diluted to 1:600, followed by Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG at 1:10,000. Personal Communication, Anna Calcagno, CCR-NCI, Bethesda, MD.



Immunohistochemistry

Image 2. IHC using ABCB1 Antibody at 20 ug/ml against FFPE human kidney. Moderate to strong cytoplasmic and membranous staining seen in this example. Similar staining also observed in other tissues including liver, kidney, and small intestine. The antibody showed minimal background staining and worked well in formalin-fixed tissues. Image provided courtesy of Lifespan Biosciences.