Product datasheet

Anti-P glycoprotein/ABCB1 Antibody

Catalog Number: *A00049-5*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-P glycoprotein/ABCB1 Antibody
Gene Name	ABCB1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human P Glycoprotein/ABCB1 recombinant protein (Position: M1-E690).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	130-180KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Selected Validation Data

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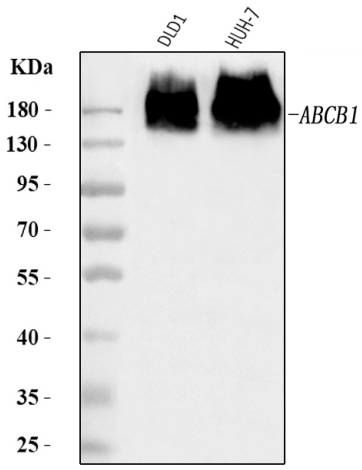

Figure 1. Western blot analysis of anti- ABCB1 antibody (A00049-5). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: DLD1 whole cell lysates,
Lane 2: HUH-7 whole cell lysates.
Use rabbit anti- ABCB1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for ABCB1 at approximately 160KD. The expected band size for ABCB1 is at 140KD.

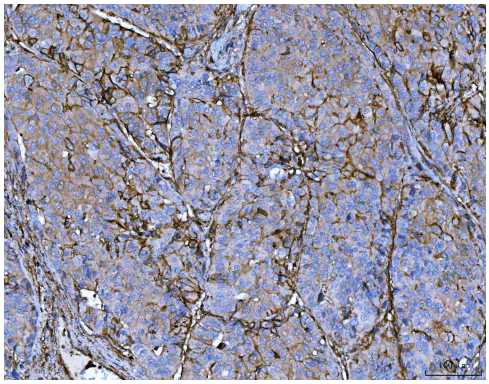

Figure 2. IHC analysis using anti- ABCB1 antibody (A00049-5). detected in paraffin-embedded section of human liver cancer tissue. Peroxidase Conjugated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog#SV0002) with DAB as the chromogen.

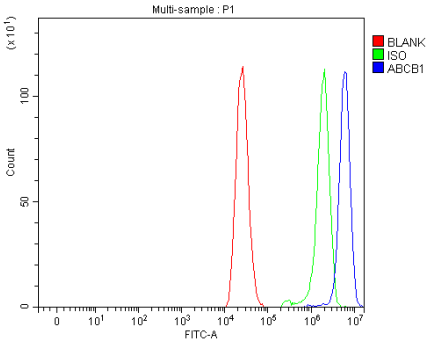

Figure 4. Flow cytometry analysis of CACO2 cell ($1x10^6$) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).DAPI (blue).

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