Product datasheet

Anti-P glycoprotein/ABCB1 Antibody

Catalog Number: *A00049-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China
Web: www.boster.com.cn ***Phone:*** +86 027-67845390 ***Fax:*** +86 027-67845390 ***Email:*** boster@boster.com.cn

Basic Information

Product Name	Anti-P glycoprotein/ABCB1 Antibody
Gene Name	ABCB1
Source	Rabbit
Isotype	IgG
Species Reactivity	human,mouse,rat
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: R669-Y710).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	130-180KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section IHC1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells ELISA: 1:100-1000

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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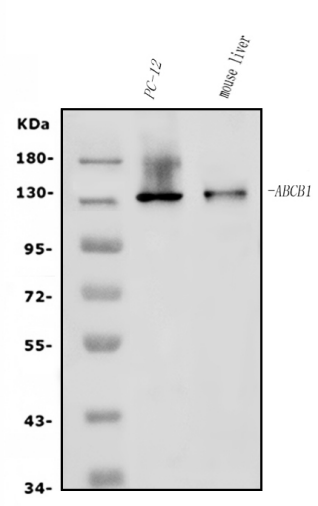

Figure 1. Western blot analysis of anti- ABCB1 antibody (A00049-3).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat PC-12 whole cell lysates,Lane 2: mouse liver tissue lysates. Use rabbit anti- ABCB1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for ABCB1 at approximately 130-180KD. The expected band size for ABCB1 is at 141KD.

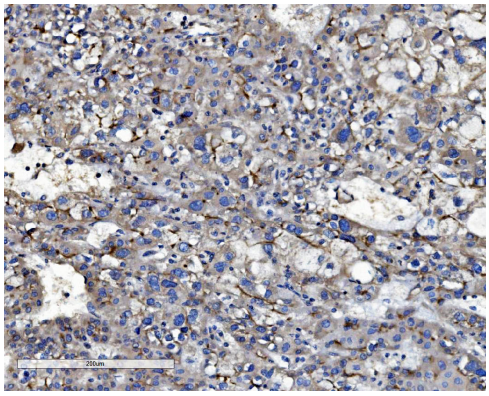

Figure 3.IHC analysis using anti-ABCB1 antibody (A00049-3).detected in paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

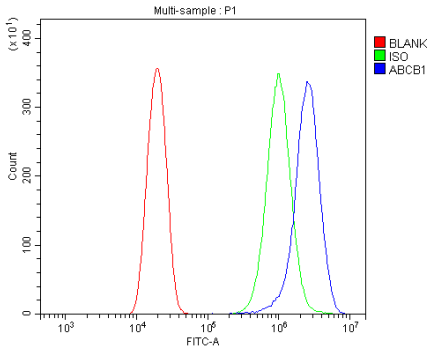

Figure 2. Flow cytometry analysis of U2OS cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).