#### **Anti-P glycoprotein/ABCB1 Antibody**

Catalog Number: A00049-4



BOSTER BIOLOGICAL TECHNOLOGY

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<b>Basic Information</b>	
Product Name	Anti-P glycoprotein/ABCB1 Antibody
Gene Name	ABCB1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM, ICC/IF
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence of human P Glycoprotein/ABCB1 (TKEALDESIPPVSFWRIMK).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	130-180KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow cytometry (FCM): 1-3µg/1x10 <sup>6</sup> cells

## **Storage**

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C 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.

### Reference

Anti-P glycoprotein/ABCB1 Antibody被引用在1文献中。

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### **Selected Validation Data**

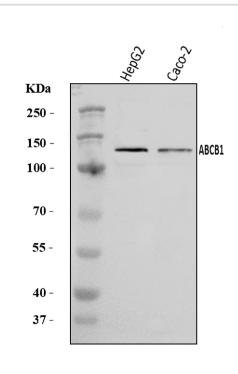


Figure 1. Western blot analysis of anti- P Glycoprotein/ABCB1 Antibody (A00049-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HepG2 whole cell lysates,

Lane 2: Caco-2 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 141KD. The expected band size for ABCB1 is at 141KD.

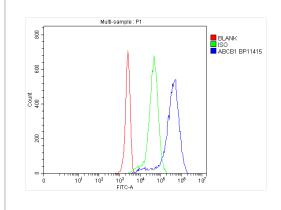


Figure 3. Flow cytometry analysis of 293T cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

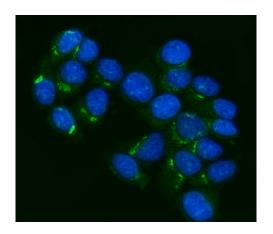


Figure 2. ICC analysis using anti- P Glycoprotein/ABCB1 Antibody (A00049-4). was detected in immersion fixed MCF-7 cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).