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Basic Information	
Product Name	Anti-P glycoprotein/ABCB1 Antibody
Gene Name	ABCB1
Source	Rabbit
lsotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	IHC
Contents	500 ug/ml antibody with PBS $_{2}$ 0.02% NaN3 , 1 mg BSA and 50% glycerol.
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.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Dilution Ratios	Immunohistochemistry in paraffin section (IHC): 1:50-400 (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,  $-20^{\circ}$ C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

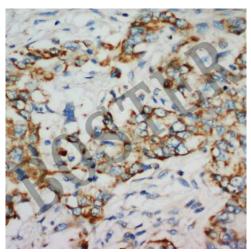
## **Background Information**

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.

## **Selected Validation Data**

## Product datasheet Anti-P glycoprotein/ABCB1 Antibody Catalog Number: BA1351-1





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Figure 1.IHC analysis using anti- ABCB1 antibody (BA1351-1). detected in paraffin-embedded section of human breast 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.