

## Product datasheet for **TA319318**

### P Glycoprotein (ABCB1) Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | WB  |
| Recommended Dilution: | ELISA: 1:10,000 - 1:50,000, WB: 1:200 - 1:2,000, IHC: User Optimized  |
| Reactivity:           | Human, Monkey, Dog, Mouse, Rat  |
| Host:                 | Rabbit  |
| Isotype:              | IgG   |
| Clonality:            | Polyclonal  |
| 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.                         |
| Formulation:          | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  |
| Concentration:        | lot specific  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | ATP binding cassette subfamily B member 1   |
| Database Link:        | <a href="#">NP_000918</a><br><a href="#">Entrez Gene 170913 Rat</a> <a href="#">Entrez Gene 403879 Dog</a> <a href="#">Entrez Gene 574235 Monkey</a> <a href="#">Entrez Gene 5243 Human</a><br><a href="#">P08183</a> |
| Synonyms:             | ABC20; CD243; CLCS; GP170; MDR1; P-GP; PGY1   |



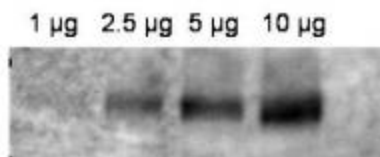
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**Note:** This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. ATP-Binding Cassette Sub-Family B Member 1 (ABCB1, also named P-glycoprotein) is a plasma membrane-associated multidrug transporter that utilizes the energy 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.

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** ABC transporters

### Product images:



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.