

**ABCG2 Antibody**  
Rabbit mAb  
Catalog # AP91085

## Specification

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### ABCG2 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O9UNQ0</a>
Clonality	Monoclonal
<b>Other Names</b>	
ATP-binding cassette sub-family G member 2; Urate exporter; CD338; ABCP; BCRP; BCRP1; MXR1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	72314 Da

### ABCG2 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ABCG2
Description	ABCG2 confers resistance for a variety of chemotherapeutic agents, including anthracyclines, mitoxantrone, bisantrene and topotecan. Play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### ABCG2 Antibody - Protein Information

**Name** ABCG2

**Synonyms** ABCP, BCRP, BCRP1, MXR

#### Function

Broad substrate specificity ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes a wide variety of physiological compounds, dietary toxins and xenobiotics from cells (PubMed:<a href="http://www.uniprot.org/citations/11306452">

target="\_blank">11306452</a>, PubMed:<a href="http://www.uniprot.org/citations/12958161" target="\_blank">12958161</a>, PubMed:<a href="http://www.uniprot.org/citations/19506252" target="\_blank">19506252</a>, PubMed:<a href="http://www.uniprot.org/citations/20705604" target="\_blank">20705604</a>, PubMed:<a href="http://www.uniprot.org/citations/28554189" target="\_blank">28554189</a>, PubMed:<a href="http://www.uniprot.org/citations/30405239" target="\_blank">30405239</a>, PubMed:<a href="http://www.uniprot.org/citations/31003562" target="\_blank">31003562</a>). Involved in porphyrin homeostasis, mediating the export of protoporphyrin IX (PPIX) from both mitochondria to cytosol and cytosol to extracellular space, it also functions in the cellular export of heme (PubMed:<a href="http://www.uniprot.org/citations/20705604" target="\_blank">20705604</a>, PubMed:<a href="http://www.uniprot.org/citations/23189181" target="\_blank">23189181</a>). Also mediates the efflux of sphingosine-1-P from cells (PubMed:<a href="http://www.uniprot.org/citations/20110355" target="\_blank">20110355</a>). Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed:<a href="http://www.uniprot.org/citations/19506252" target="\_blank">19506252</a>, PubMed:<a href="http://www.uniprot.org/citations/20368174" target="\_blank">20368174</a>, PubMed:<a href="http://www.uniprot.org/citations/22132962" target="\_blank">22132962</a>, PubMed:<a href="http://www.uniprot.org/citations/31003562" target="\_blank">31003562</a>, PubMed:<a href="http://www.uniprot.org/citations/36749388" target="\_blank">36749388</a>). In kidney, it also functions as a physiological exporter of the uremic toxin indoxyl sulfate (By similarity). Also involved in the excretion of steroids like estrone 3-sulfate/E1S, 3beta-sulfooxy-androst-5-en-17-one/DHEAS, and other sulfate conjugates (PubMed:<a href="http://www.uniprot.org/citations/12682043" target="\_blank">12682043</a>, PubMed:<a href="http://www.uniprot.org/citations/28554189" target="\_blank">28554189</a>, PubMed:<a href="http://www.uniprot.org/citations/30405239" target="\_blank">30405239</a>). Mediates the secretion of the riboflavin and biotin vitamins into milk (By similarity). Extrudes pheophorbide a, a phototoxic porphyrin catabolite of chlorophyll, reducing its bioavailability (By similarity). Plays an important role in the exclusion of xenobiotics from the brain (Probable). It confers to cells a resistance to multiple drugs and other xenobiotics including mitoxantrone, pheophorbide, camptothecin, methotrexate, azidothymidine, and the anthracyclines daunorubicin and doxorubicin, through the control of their efflux (PubMed:<a href="http://www.uniprot.org/citations/11306452" target="\_blank">11306452</a>, PubMed:<a href="http://www.uniprot.org/citations/12477054" target="\_blank">12477054</a>, PubMed:<a href="http://www.uniprot.org/citations/15670731" target="\_blank">15670731</a>, PubMed:<a href="http://www.uniprot.org/citations/18056989" target="\_blank">18056989</a>, PubMed:<a href="http://www.uniprot.org/citations/31254042" target="\_blank">31254042</a>). In placenta, it limits the penetration of drugs from the maternal plasma into the fetus (By similarity). May play a role in early stem cell self-renewal by blocking differentiation (By similarity).

### Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein. Note=Enriched in membrane lipid rafts

### Tissue Location

Highly expressed in placenta (PubMed:9850061). Low expression in small intestine, liver and colon (PubMed:9861027) Expressed in brain (at protein level) (PubMed:12958161)

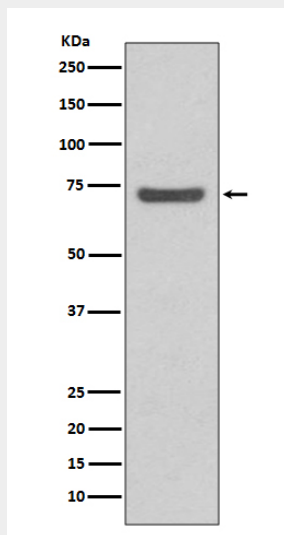
## ABCG2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ABCG2 Antibody - Images



Western blot analysis of ABCG2 expression in 293T cell lysate.