

Product Name: ABCG2 (19N14) Rabbit Monoclonal Antibody
Catalog #: AMRe06425



Summary

Production Name	ABCG2 (19N14) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	ABCG2
Alternative Names	ATP-binding cassette sub-family G member 2; Urate exporter; CD338; ABCP; BCRP; BCRP1; MXR1;
Gene ID	9429.0
SwissProt ID	Q9UNQ0.A synthetic peptide of human BCRP/ABCG2

Application

Dilution Ratio	WB: 1:1000-1:5000
Molecular Weight	72kDa

Background

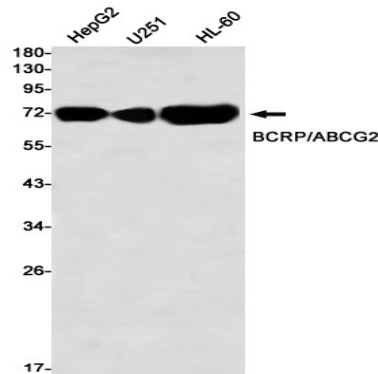
ABCG2 confers resistance for a variety of chemotherapeutic agents, including anthracyclines, mitoxantrone, bisantrene and topotecan. Play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123. 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:[11306452](http://www.uniprot.org/citations/11306452), PubMed:[12958161](http://www.uniprot.org/citations/12958161), PubMed:[19506252](http://www.uniprot.org/citations/19506252), PubMed:[20705604](http://www.uniprot.org/citations/20705604), PubMed:[28554189](http://www.uniprot.org/citations/28554189), PubMed:[30405239](http://www.uniprot.org/citations/30405239), PubMed:[31003562](http://www.uniprot.org/citations/31003562)). 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:[20705604](http://www.uniprot.org/citations/20705604), PubMed:[23189181](http://www.uniprot.org/citations/23189181)). Also mediates the efflux of sphingosine-1-P from cells (PubMed:[20110355](http://www.uniprot.org/citations/20110355)). Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed:[19506252](http://www.uniprot.org/citations/19506252), PubMed:[20368174](http://www.uniprot.org/citations/20368174), PubMed:[22132962](http://www.uniprot.org/citations/22132962), PubMed:[31003562](http://www.uniprot.org/citations/31003562)). 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:[12682043](http://www.uniprot.org/citations/12682043), PubMed:[28554189](http://www.uniprot.org/citations/28554189), PubMed:[30405239](http://www.uniprot.org/citations/30405239)). 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:[11306452](http://www.uniprot.org/citations/11306452), PubMed:[12477054](http://www.uniprot.org/citations/12477054), PubMed:[12477054](http://www.uniprot.org/citations/12477054)).

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[15670731](http://www.uniprot.org/citations/15670731) , PubMed:18056989 , PubMed:31254042). 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).

Research Area

Image Data



Western blot detection of BCRP/ABCG2 in HepG2,U251,HL-60 using BCRP/ABCG2 antibody(1:1000 diluted)

Note

For research use only.