

产品名称: ABCG2 (19N14) Rabbit Monoclonal Antibody
产品货号: AMRe06425



产品概述 (Summary)

产品名称 (Production Name)	ABCG2 (19N14) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

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

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000
蛋白分子量 (Molecular Weight)	72kDa

研究背景 (Background)

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

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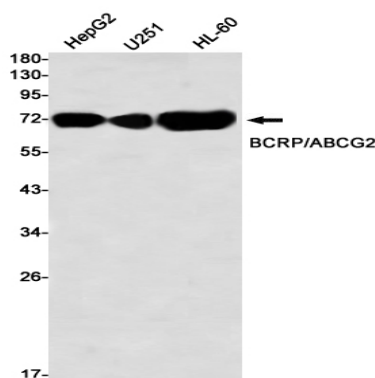


<http://www.uniprot.org/citations/31254042>). In placenta, it limits the penetration of drugs from the maternal plasma into the fetus (By similarity). May play a role in early stem cell self-renewal by blocking differentiation (By similarity).

研究领域 (Research Area)

Stem Cells

图片 (Image Data)



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

注意事项 (Note)

For research use only .