

## ABCG2 Rabbit mAb

Catalog No: #52723

Package Size: #52723-1 50ul #52723-2 100ul

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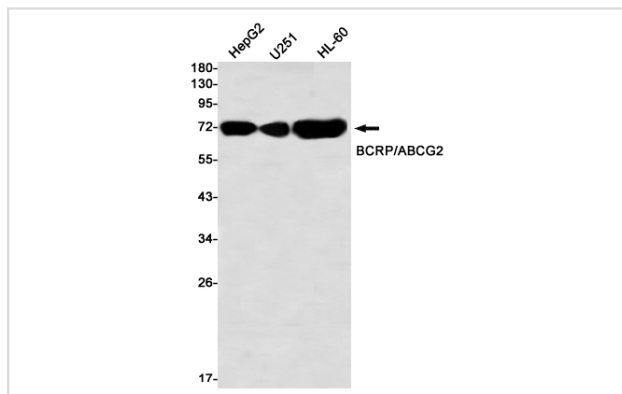
## Description

Product Name	ABCG2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-5C2
Isotype	IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human BCRP/ABCG2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; MXR-1; CDw338; UAQTL1; EST157481
Accession No.	Swiss-Prot:Q9UNQ0GeneID:9429
Uniprot	Q9UNQ0
GeneID	9429
Calculated MW	Calculated MW:72 kDa,Observed MW:72 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Application Details

WB: 1/1000

## Images



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

## Background

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, PubMed:12958161, PubMed:19506252, PubMed:20705604, PubMed:28554189, PubMed:30405239, PubMed: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, PubMed:23189181).

Also mediates the efflux of sphingosine-1-P from cells (PubMed:20110355).

Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed:19506252, PubMed:20368174, PubMed:22132962, PubMed: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, PubMed:28554189, PubMed: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, PubMed:12477054, PubMed: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).

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Note: This product is for in vitro research use only