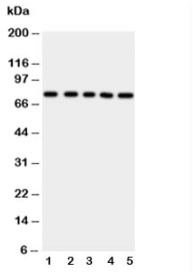
ABCG2 Antibody (BCRP) (R30968)

Catalog No.	Formulation	Size
R30968	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9UNQ0
Applications	Western blot: 0.5-1ug/ml
Limitations	This ABCG2 antibody is available for research use only.



Western blot testing of ABCG2 antibody and Lane 1: HeLa; 2: SW620; 3: MCF-7; 4: SKOV; 5: Jurkat cell lysate. Predicted molecular weight ~72kDa.

Description

ATP-binding cassette, subfamily g, member 2, also known as ABCP, BCRP or MRX,is aprotein that in humans is encoded by the ABCG2gene. Thegene encodes a membrane transporter belonging to the ATP-binding cassette(ABC) superfamily of membrane transporters, which are involved in the trafficking of biologic molecules across cell membranes.Theprotein is also a high capacity transporter for uric acid excretion in the kidney, liver, and gut. The ABCG2 gene is mapped on 4q22.1. In vitro assays of isolated membrane preparations revealed a high-capacity, vanadate-sensitive ATPase activity associated withABCG2expression that was stimulated by compounds known to be transported by this protein. Ozvegy et al.(2001)concluded thatthe proteinis likely functioning as a homodimer or homooligomer in this

expression system since it is unlikely that putative Sf9 transport partners would be overexpressed at similarly high levels.Abcg2transports pheophorbide-a, which occurs in various plant-derived foods and food supplements and is highly efficient in limiting its uptake from ingested food.ABCG2is a major factor in the concentrative transfer of drugs, carcinogens, and dietary toxins to the milk of mice, cows, and humans.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ABCG2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human BCRP/ABCG2 (NHEKNERINRVIQEL) was used as the immunogen for this ABCG2 antibody.

Storage

After reconstitution, the ABCG2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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