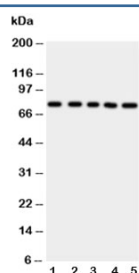


## ABCG2 Antibody (BCRP) (R30968)

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

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	Q9UNQ0
<b>Applications</b>	Western Blot : 0.5-1ug/ml
<b>Limitations</b>	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 a protein that in humans is encoded by the ABCG2 gene. The gene 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. The protein 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 with ABCG2 expression that was stimulated by compounds known to be transported by this protein. Ozvegy et al. (2001) concluded that the protein is 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. Abcg2 transports pheophorbide-a, which occurs in various plant-derived foods and food supplements and is highly efficient in limiting its uptake from ingested food. ABCG2 is 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.