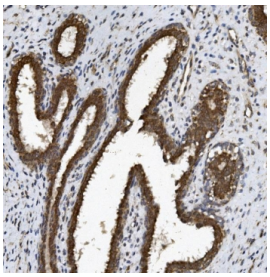
BCRP Antibody / ABCG2 (RQ5697)

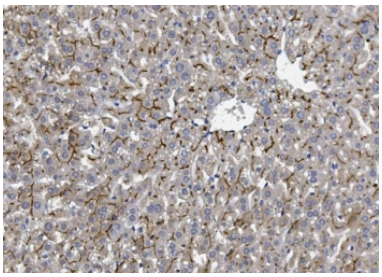
Catalog No.	Formulation	Size
RQ5697	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

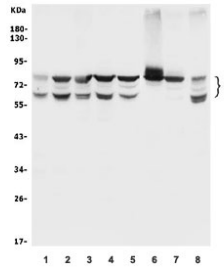
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9UNQ0
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This BCRP antibody is available for research use only.



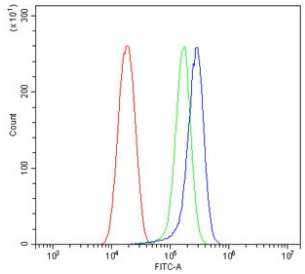
IHC staining of FFPE human breast cancer with BCRP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse liver with BCRP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) A549, 2) MDA-MB-453, 3) HepG2, 4) Caco-2, 5) PC-3, 6) rat liver, 7) rat kidney and 8) mouse HEPA1-6 lysate with BCRP antibody. Expected molecular weight: 65-80 kDa depending on glycosylation level.



Flow cytometry testing of human SiHa cells with BCRP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= BCRP antibody.

Description

ABCG2 (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. It is mapped on 4q22.1. The ABCG2 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 ABCG2 protein is also a high capacity transporter for uric acid excretion in the kidney, liver, and gut. 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. ABCG2 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

Optimal dilution of the BCRP antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-R378) was used as the immunogen for the BCRP antibody.

Storage

After reconstitution, the BCRP 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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