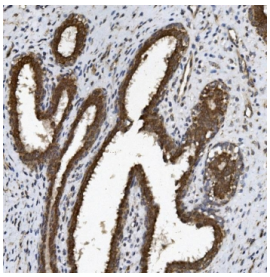
# BCRP Antibody / ABCG2 (RQ5697)

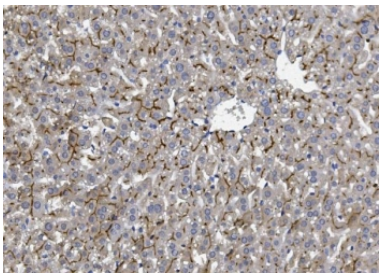
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5697 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

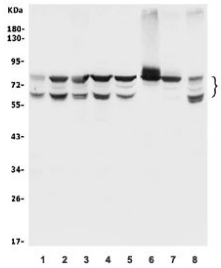
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS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



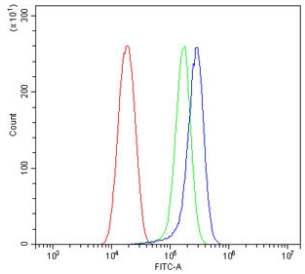
IHC staining of FFPE human breast cancer with BCRP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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.