

# BCRP (ABCG2) Antibody

**ALTERNATE NAMES:** Breast Cancer Resistance Protein, BCRP1, ATP-binding cassette sub-family G member 2, ATP binding cassette sub family G (WHITE) member 2, ABCG2, Mitoxantrone resistance associated protein, MXR, MXR1

**CATALOG #:** 6971-100

**AMOUNT:** 100 µg/vial

**HOST/ISOTYPE:** Rabbit IgG, Polyclonal

**IMMUNOGEN:** Synthetic peptide corresponding to amino acids around position 160 of human ABCG2

**MOL. WEIGHT:** 72 kDa

**FORM:** Lyophilized

**FORMULATION:** Each vial contains 5mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg NaN<sub>3</sub>, 0.05 mg Thimerosal

**RECONSTITUTION:** 0.2 ml of deionized water will yield a 0.5 mg/ml antibody solution

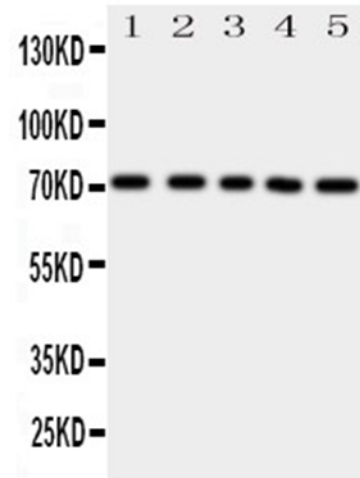
**PURIFICATION:** Immunogen affinity-purified

**SPECIES REACTIVITY:** Human

**STORAGE CONDITIONS:** Store lyophilized at -20°C for one year. After reconstitution, store at 4°C for 1 month. For long term storage of the reconstituted form, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** BCRP, also called ABCG2, is encoded by the ABCG2 gene. BCRP is a well-characterized ABC-transporter (which limits uptake or mediates efflux of a wide variety of drugs, carcinogens, dietary toxins across cellular membranes). It is an ATP-dependent pump with broad substrate specificity. Significant expression has been observed in the placenta and it has been shown to have a role in protecting the fetus from xenobiotics in the maternal circulation. It plays protective roles in blocking absorption at the apical membrane of the intestine, and at the blood-testis barrier, the blood-brain barrier and the membranes of hematopoietic progenitor and other stem cells. At the apical membranes of the liver and kidney, it enhances excretion of xenobiotics. In the lactating mammary gland, it has a role on excreting vitamins such as riboflavin and biotin into milk.

**APPLICATION:** We suggest starting with 0.1-0.5 µg/ml\* for Western Blot with human samples. The detection limit for ABCG2 is approximately 1ng/lane under reducing conditions. Other applications are possible but have not been tested.



Lane 1: HeLa Cell Lysate  
 Lane 2: SW620 Cell Lysate  
 Lane 3: MCF-7 Cell Lysate  
 Lane 4: SKOV Cell Lysate  
 Lane 5: Jurkat Cell Lysate

**RELATED PRODUCTS:**

- P-glycoprotein Antibody (Cat # 6970-100)
- ABCG1 Antibody (Center) (Cat # 6705-100)
- ABCG1 Antibody (NT) (Cat # 6704-100)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

