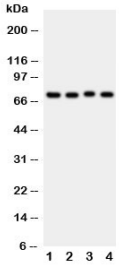
ABCG2 Antibody (BCRP) (R30969)

Catalog No.	Formulation	Size
R30969	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Citations (1)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q7TMS5
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: rat liver; 2: rat spleen; 3: rat kidney; 4: mouse spleen tissue lysate. Predicted molecular weight ~72kDa.

Description

ABCG2 (ATP-binding cassette sub-family G member 2), also known as Breast Cancer Resistance Protein (BCRP), is a half-transporter belonging to the ABC transporter superfamily. Unlike full-length transporters, ABCG2 forms homodimers to function as an active efflux pump. It plays a vital role in exporting a wide range of molecules, including drugs, toxins, and metabolic byproducts. Researchers often rely on a ABCG2 antibody to study its role in pharmacology, toxicology, and cellular defense systems.

Physiologically, ABCG2 is expressed in barrier tissues such as the placenta, intestine, liver, kidney, and brain

endothelium. By limiting intracellular accumulation of xenobiotics and metabolites, it protects sensitive organs and regulates drug absorption and elimination. A ABCG2 antibody is therefore a valuable tool for investigating drug distribution, pharmacokinetics, and interindividual variability in response to treatment.

ABCG2 is also highly relevant in cancer biology. Its overexpression in tumors is a well-documented mechanism of multidrug resistance, as the transporter actively effluxes chemotherapeutic agents like mitoxantrone, topotecan, and doxorubicin. In addition, ABCG2 activity is a recognized marker of stem-like Ã¢Â€Âœside populationÃ¢Â€Â• cells, which show enhanced drug resistance and regenerative capacity. Using a ABCG2 antibody supports studies into tumor biology, cancer stem cells, and resistance to therapy.

NSJ Bioreagents provides a high-quality ABCG2 antibody suitable for applications including immunohistochemistry, western blot, and flow cytometry. Choosing a ABCG2 antibody from NSJ Bioreagents ensures reproducibility and accuracy in research focused on drug transport, multidrug resistance, and stem cell characterization.

Application Notes

Titration of the ABCG2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 152-167 (KNHEKNERINTIIKEL-mouse) were used as the immunogen for this BCRP / ABCG2 antibody.

Storage

The lyophilized ABCG2 antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.