

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody
Catalog # ABO13742**Specification****Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	O9UNQ0
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Additional Information

Gene ID 9429

Other Names

Broad substrate specificity ATP-binding cassette transporter ABCG2, 7.6.2.2, ATP-binding cassette sub-family G member 2, Breast cancer resistance protein, CDw338, Mitoxantrone resistance-associated protein, Placenta-specific ATP-binding cassette transporter, Urate exporter, CD338, ABCG2, ABCP, BCRP, BCRP1, MXR

Calculated MW

72314 MW KDa

Application Details

WB 1:500-1:2000

Subcellular Localization

Cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein.

Tissue Specificity

Highly expressed in placenta. Low expression in small intestine, liver and colon..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human ABCG2

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Protein Information**Name** ABCG2**Synonyms** ABCP, BCRP, BCRP1, MXR**Function**

Broad substrate specificity ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes a wide variety of physiological compounds, dietary toxins and xenobiotics from cells (PubMed: 11306452, PubMed: 12958161, PubMed: 19506252, PubMed: 20705604, PubMed: 28554189, PubMed: 30405239, PubMed: 31003562). Involved in porphyrin homeostasis, mediating the export of protoporphyrin IX (PPIX) from both mitochondria to cytosol and cytosol to extracellular space, it also functions in the cellular export of heme (PubMed: 20705604, PubMed: 23189181). Also mediates the efflux of sphingosine-1-P from cells (PubMed: 20110355). Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed: 19506252, PubMed: 20368174, PubMed: 22132962, PubMed: 31003562, PubMed: 36749388). In kidney, it also functions as a physiological exporter of the uremic toxin indoxyl sulfate (By similarity). Also involved in the excretion of steroids like estrone 3-sulfate/E1S, 3beta-sulfooxy-androst-5-en-17-one/DHEAS, and other sulfate conjugates (PubMed: 12682043, PubMed: 28554189, PubMed: 30405239). Mediates the secretion of the riboflavin and biotin vitamins into milk (By similarity). Extrudes pheophorbide a, a phototoxic porphyrin catabolite of chlorophyll, reducing its bioavailability (By similarity). Plays an important role in the exclusion of xenobiotics from the brain (Probable). It confers to cells a resistance to multiple drugs and other xenobiotics including mitoxantrone, pheophorbide, camptothecin, methotrexate, azidothymidine, and the anthracyclines daunorubicin and doxorubicin, through the control of their efflux (PubMed: 11306452, PubMed: 12477054, PubMed: 15670731, PubMed: 18056989, PubMed: 31254042). In placenta, it limits the penetration of drugs from the maternal plasma into the fetus (By similarity). May play a role in early stem cell self-renewal by blocking differentiation (By similarity). In inflammatory macrophages, exports itaconate from the cytosol to the extracellular compartment and limits the activation of TFEb-dependent lysosome biogenesis involved in antibacterial innate immune response.

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein. Note=Enriched in membrane lipid rafts

Tissue Location

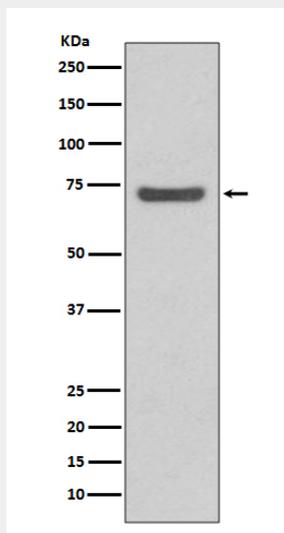
Highly expressed in placenta (PubMed:9850061). Low expression in small intestine, liver and colon (PubMed:9861027) Expressed in brain (at protein level) (PubMed:12958161)

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Images



Western blot analysis of ABCG2 expression in 293T cell lysate.