

# Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody

Catalog # ABO13742

## Product Information

---

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                      |
| <b>Primary Accession</b> | <a href="#">Q9UNQ0</a>                                                                                  |
| <b>Host</b>              | Rabbit                                                                                                  |
| <b>Isotype</b>           | Rabbit IgG                                                                                              |
| <b>Reactivity</b>        | Human                                                                                                   |
| <b>Clonality</b>         | Monoclonal                                                                                              |
| <b>Format</b>            | Liquid                                                                                                  |
| <b>Description</b>       | Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human. |

## Additional Information

---

|                                 |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 9429                                                                                                                                                                                                                                                                                                                    |
| <b>Other Names</b>              | 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 |
| <b>Calculated MW</b>            | 72314                                                                                                                                                                                                                                                                                                                   |
| <b>Application Details</b>      | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                         |
| <b>Subcellular Localization</b> | Cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein.                                                                                                                                                                                                                        |
| <b>Tissue Specificity</b>       | Highly expressed in placenta. Low expression in small intestine, liver and colon..                                                                                                                                                                                                                                      |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                                                               |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                                                                                                     |
| <b>Clone Names</b>              | Clone: AODG-1                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen</b>                | A synthesized peptide derived from human ABCG2                                                                                                                                                                                                                                                                          |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>                  | 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.                                                                                                                                                                              |

## Protein Information

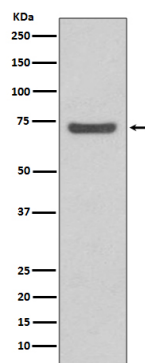
---

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | ABCG2 ( <a href="#">HGNC:74</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Synonyms          | ABCP, BCRP, BCRP1, MXR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Function          | <p>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:<a href="#">11306452</a>, PubMed:<a href="#">12958161</a>, PubMed:<a href="#">19506252</a>, PubMed:<a href="#">20705604</a>, PubMed:<a href="#">28554189</a>, PubMed:<a href="#">30405239</a>, PubMed:<a href="#">31003562</a>). 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:<a href="#">20705604</a>, PubMed:<a href="#">23189181</a>). Also mediates the efflux of sphingosine-1-P from cells (PubMed:<a href="#">20110355</a>). Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed:<a href="#">19506252</a>, PubMed:<a href="#">20368174</a>, PubMed:<a href="#">22132962</a>, PubMed:<a href="#">31003562</a>, PubMed:<a href="#">36749388</a>). 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:<a href="#">12682043</a>, PubMed:<a href="#">28554189</a>, PubMed:<a href="#">30405239</a>). Mediates the secretion of the vitamins riboflavin and biotin into milk (By similarity). Involved in the excretion of the riboflavin-derived compound lumichrome into the intestinal lumen and in its secretion into milk (PubMed:<a href="#">39337371</a>). 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:<a href="#">11306452</a>, PubMed:<a href="#">12477054</a>, PubMed:<a href="#">15670731</a>, PubMed:<a href="#">18056989</a>, PubMed:<a href="#">31254042</a>). 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.</p> |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Images

---

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.