

ABCG2 monoclonal antibody, clone BXP-34

Catalog # MAB5285

Size

Specification

Product Description	Mouse monoclonal antibody raised against native ABCG2.
Immunogen	Native purified ABCG2 from the mitoxanthrone resistant, BCRP overexpressing cell line MCF7 MR.
Host	Mouse
Reactivity	Human
Specificity	BXP-34 reacts with an internal epitope of BCRP, a 70 kD transmembrane half-transporter which is involved in multidrug resistance. BXP-34 did not cross-react with the human MDR1, MRP1, MRP2, MR P5 gene products.
Form	Liquid
Isotype	IgG1
Recommend Usage	Immunocytochemistry (1:20-1:50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:20) The optimal working dilution should be determined by the end user.
Storage Buffer	In tissue culture supernatant (1% BSA, 0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

- Flow Cytometry

Gene Info — ABCG2

Entrez GeneID	9429
Gene Name	ABCG2
Gene Alias	ABC15, ABCP, BCRP, BCRP1, BMDP, CD338, CDw338, EST157481, MGC102821, MRX, M XR, MXR1
Gene Description	ATP-binding cassette, sub-family G (WHITE), member 2
Omim ID	603756
Gene Ontology	Hyperlink
Gene Summary	The membrane-associated protein encoded by this gene is included in the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. [provided by RefSeq]
Other Designations	ABC transporter ATP-binding cassette transporter G2 ATP-binding cassette, sub-family G, member 2 breast cancer resistance protein mitoxantrone resistance protein placenta specific MDR protein

Pathway

- [ABC transporters](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)

- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)
- [Drug-Induced Liver Injury](#)
- [Edema](#)
- [Encephalomyelitis](#)
- [Epilepsies](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Gilbert Disease](#)
- [Glioma](#)
- [Gout](#)
- [Head and Neck Neoplasms](#)

- [Hearing Loss](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hyperuricemia](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Mesothelioma](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Neurotoxicity Syndromes](#)
- [Neutropenia](#)
- [Obesity](#)
- [Opportunistic Infections](#)

- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pleural Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Stroke](#)
- [Urogenital Neoplasms](#)