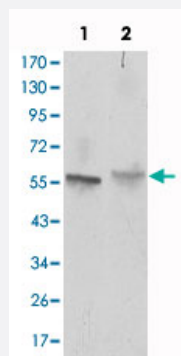


ABCG2 monoclonal antibody, clone 3G8

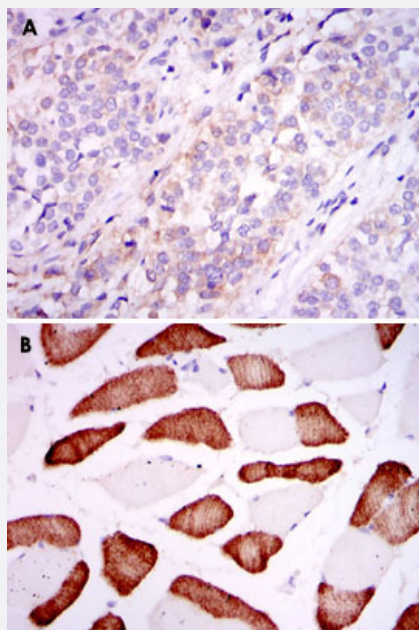
Catalog # MAB10478 Size 100 uL

Applications



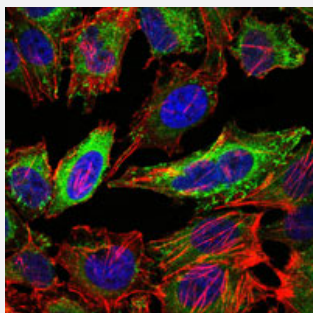
Western Blot (Cell lysate)

Western blot analysis using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) against NIH/3T3 (1) and COS-7 (2) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues (A) and skeletal muscle tissues (B) using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) with DAB staining.

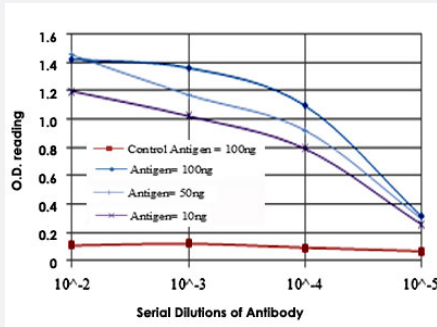


Immunofluorescence

Immunofluorescence analysis of HeLa cells using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

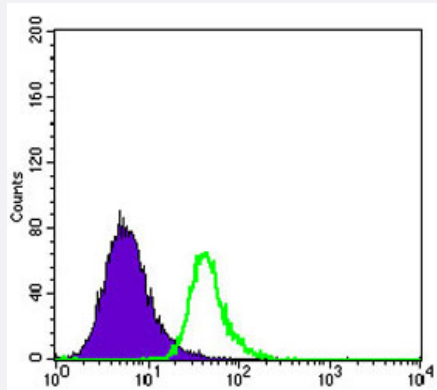
Enzyme-linked Immunoabsorbent Assay

ELISA detection with ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478).



Flow Cytometry

Flow cytometric analysis of HepG2 cells using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) (green) and negative control (purple).



Specification

Product Description Mouse monoclonal antibody raised against partial recombinant ABCG2.

Immunogen Recombinant protein corresponding to human ABCG2.

Host Mouse

Theoretical MW (kDa) 72

Reactivity Human, Monkey, Mouse

Form Liquid

Isotype IgG1

Recommend Usage

- ELISA (1:10000)
- Western Blot (1:500-1:2000)
- Immunohistochemistry (1:200-1:1000)
- Immunofluorescence (1:200-1:1000)
- Flow cytometry (1:200-1:400)
- The optimal working dilution should be determined by the end user.

Storage Buffer In ascites (0.03% 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 (Cell lysate)

Western blot analysis using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) against NIH/3T3 (1) and COS-7 (2) cell lysate.

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- Enzyme-linked Immunoabsorbent Assay

ELISA detection with ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478).

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Flow cytometric analysis of HepG2 cells using ABCG2 monoclonal antibody, clone 3G8 (Cat # MAB10478) (green) and negative control (purple).

Gene Info — ABCG2

Entrez GeneID[9429](#)**Gene Name**

ABCG2

Gene Alias

ABC15, ABCP, BCRP, BCRP1, BMDP, CD338, CDw338, EST157481, MGC102821, MRX, MXR, 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](#)