# ABCG2 monoclonal antibody

Catalog: MB21475 Host: Mouse Reactivity: Human,Mouse,Rat,Rabbit,Monkey

## BackGround:

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

## Product:

Purified antibody in PBS with 0.05% sodium azide.

## Molecular Weight:

72kDa

## Swiss-Prot:

Q9UNQ0

## Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

## Applications:

WB:1/500 - 1/2000 IHC:1/100 - 1/500 IF:1/50 - 1/500 FC:1/200 - 1/400

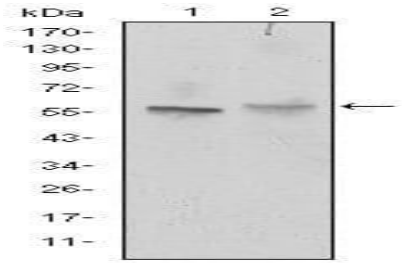
## Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

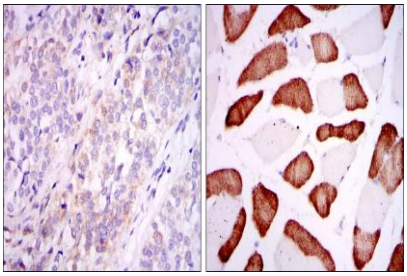
## Isotype:

Mouse IgG1

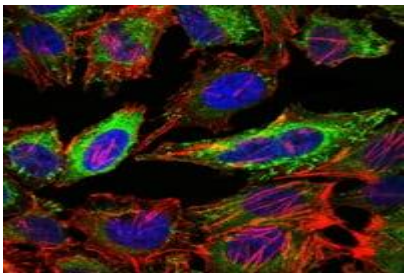
## DATA:




Western blot analysis using ABCG2 mouse mAb against NIH/3T3 (1) and Cos7 (2) cell lysate.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues (left) and skeletal muscle tissues (right) using ABCG2 mouse mAb with DAB staining.



Immunofluorescence analysis of Hela cells using ABCG2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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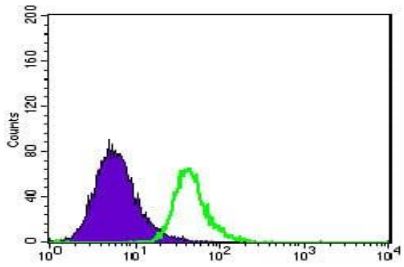


Flow cytometric analysis of HepG2 cells using ABCG2 mouse mAb (green) and negative control (purple).

**Note:**

For research use only, not for use in diagnostic procedure.

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