ABCG2 Rabbit mAb

Catalog No: #49354

Package Size: #49354-1 50ul #49354-2 100ul

Signalway Antibody
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Support: tech@signalwayantibody.com

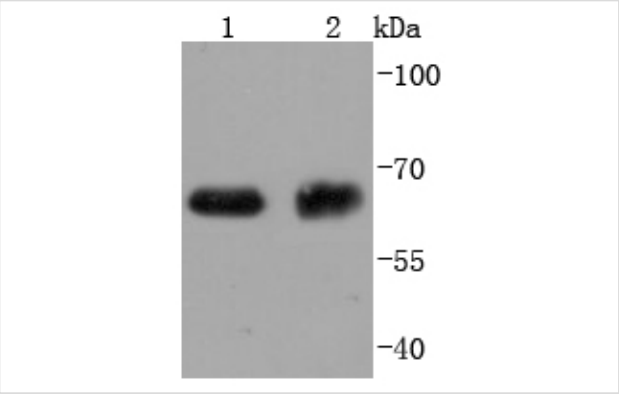
Description

Product Name	ABCG2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SR4537
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	ABC transporter antibody ABC15 antibody ABCG 2 antibody ABCG2 antibody ABCG2_HUMAN antibody ABCP antibody ATP binding cassette sub family G (WHITE) member 2 antibody ATP binding cassette transporter G2 antibody ATP-binding cassette sub-family G member 2 antibody BCRP antibody BCRP1 antibody BMDP antibody Breast cancer resistance protein antibody CD338 antibody CDw338 antibody CDw338 antigen antibody EST157481 antibody GOUT1 antibody MGC102821 antibody Mitoxantrone resistance associated protein antibody Mitoxantrone resistance-associated protein antibody MRX antibody Multi drug resistance efflux transport ATP binding cassette sub family G (WHITE) member 2 antibody MXR antibody MXR1 antibody Placenta specific ATP binding cassette transporter antibody Placenta specific MDR protein antibody Placenta-specific ATP-binding cassette transporter antibody UAQTL1 antibody
Accession No.	Swiss-Prot#:Q9UNQ0
Calculated MW	72 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

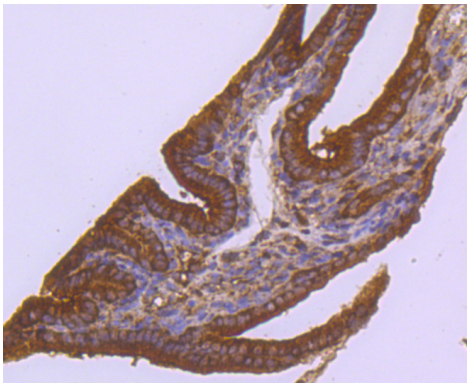
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

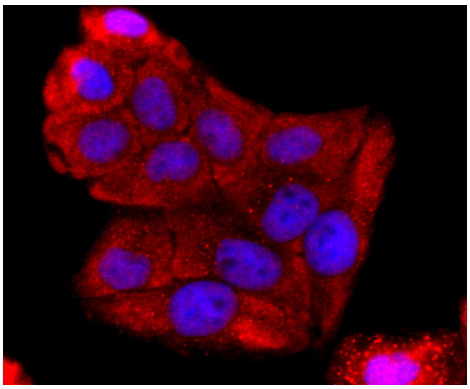
Images



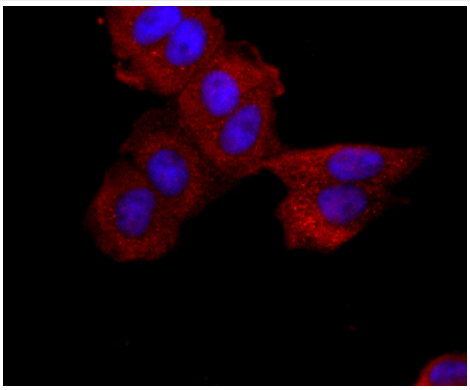
Western blot analysis of ABCG2 on different lysates using anti-ABCG2 antibody at 1/1,000 dilution. Positive control:
Lane 1: HepG2 Lane 2: Human placenta



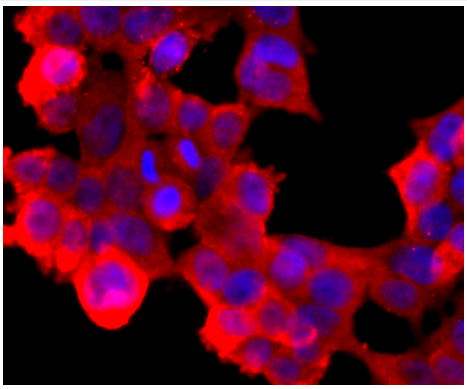
Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-ABCG2 antibody. Counter stained with hematoxylin.



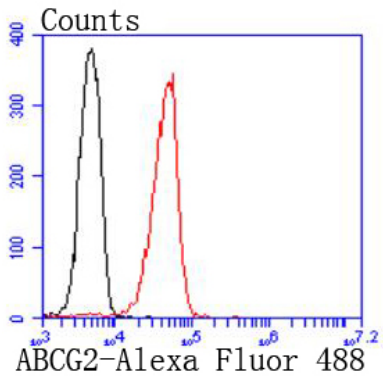
ICC staining ABCG2 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ABCG2 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ABCG2 in 293T cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of 293T cells with ABCG2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

ATP-binding cassette (ABC) transporters are an evolutionarily conserved family of proteins that catalyze the transport of molecules across extracellular and intracellular membranes through the energy of ATP hydrolysis. The ABC half-transporter, ABCG2, is also known as placenta-specific ABC transporter and breast cancer resistance protein (BCRP1). ABCG2 confers resistance for a variety of chemotherapeutic agents, including anthracyclines, mitoxantrone, bisantrene and topotecan. Under normal conditions, ABCG2 may serve a protective function by removing toxins from the cell, and plays an important role in regulating stem cell differentiation. ABCG2 is responsible for the side population (SP) phenotype and is widely expressed in a large variety of stem cells, making it an important stem cell marker. ABCG2 may have N-linked glycosylation and may dimerize in vivo. ABCG2 is abundantly expressed in placenta, liver, intestine and stem cells.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.