Data Sheet (Cat.No.TMAC-00044)

Anti-ABCG2 Antibody (4D379)

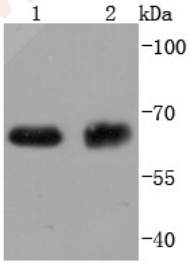
Product Details

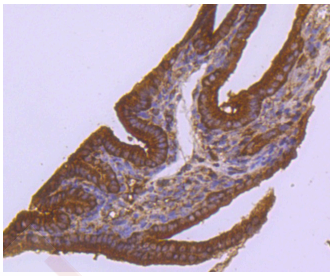
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 72 kDa.
Clone:	4D379
Purification:	ProA affinity purified

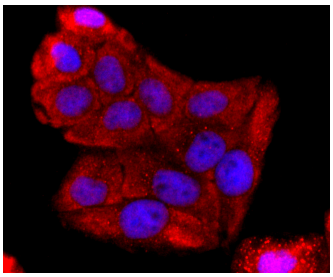
Applications

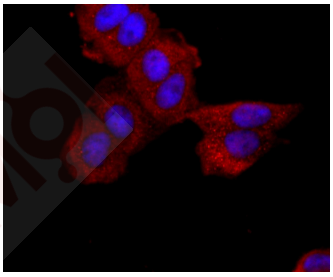
Verified Activity:

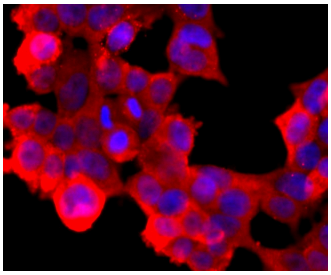
1. Western blot analysis of ABCG2 on different lysates using anti-ABCG2 antibody at 1/1,000 dilution. Positive control: Lane 1: HepG2, Lane 2: Human placenta.
2. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-ABCG2 antibody. Counter stained with hematoxylin.
3. ICC 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.
4. 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.
5. 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.
6. 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.

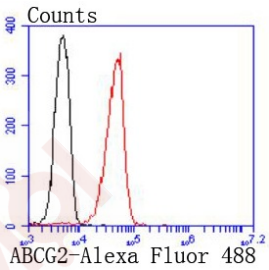












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9UNQ0

Synonyms: CD338;Multi drug resistance efflux transport ATP binding cassette sub family G(WHITE) member 2;ATP binding cassette transporter G2;Mitoxantrone resistance associated protein;ATP-binding cassette sub-family G member 2;BMDP;ATP binding cassette sub family G(WHITE) member 2;UAQTL1;EST157481;CDw338;BCRP1;Placenta specific MDR protein;ABCG 2;Breast cancer resistance protein;ABC15;MXR1;ABCP;CDw338 antigen;GOUT1;Placenta specific ATP binding

cassette transporter;MXR;MGC102821;MRX

Research 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.

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