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Product datasheet for TA336921

ABCG2 Mouse Monoclonal Antibody [Clone ID: 3G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G8
Applications:	ELISA, FC, IF, IHC, WB
Recommend Dilution:	WB: 1:500-1:2000, ELISA: 1:10000, FC: 1:200-1:400, IF: 1:200-1:1000, IHC: 1:10-1:500, IHC-P: 1:200-1:1000
Reactivity:	Human, Mouse, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human ABCG2 expressed in E. coli. [UniProt# Q9UNQ0]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	1 mg/ml
Purification:	Ammonium sulfate precipitation
Predicted Protein Size:	60-70 kDa
Gene Name:	ATP binding cassette subfamily G member 2 (Junior blood group)
Database Link:	NP_004818 Entrez Gene 26357 MouseEntrez Gene 9429 Human
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.

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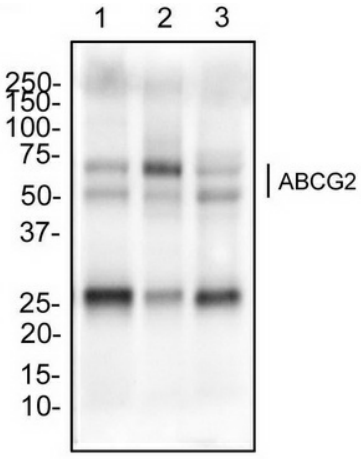
Synonyms: ABC15; ABCP; BCRP; BCRP1; BMDP; CD338; CDw338; EST157481; GOUT1; MRX; MXR; MXR-1; MXR1; UAQTL1

Note: This ABCG2 (3G8) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections, Immunocytochemistry/Immunofluorescence, Flow Cytometry and ELISA. In WB a dimer can be seen at 60-70 kDa representing ABCG2.

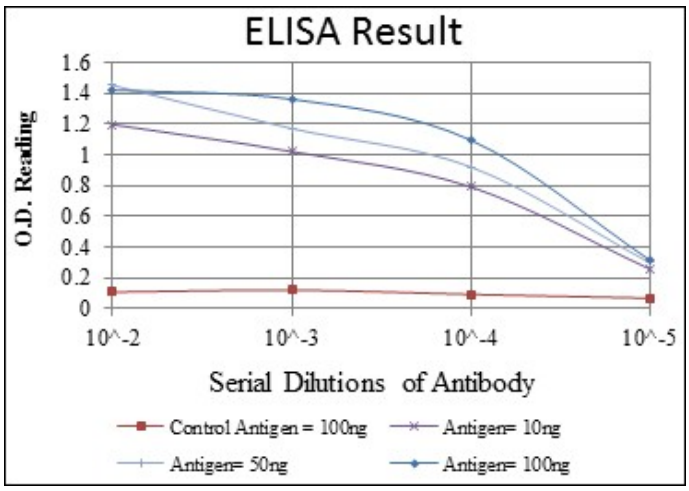
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: ABC transporters

Product images:



Western Blot: ABCG2 Antibody (3G8) TA336921 - Analysis of ABCG2 expression in 1) human small intestine, 2) human placenta and 3) mouse placenta tissue extracts.



ELISA: ABCG2 Antibody (3G8) TA336921 - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng).

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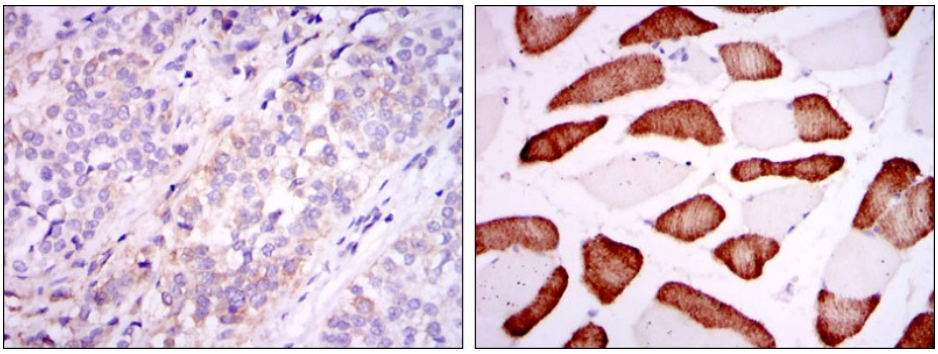
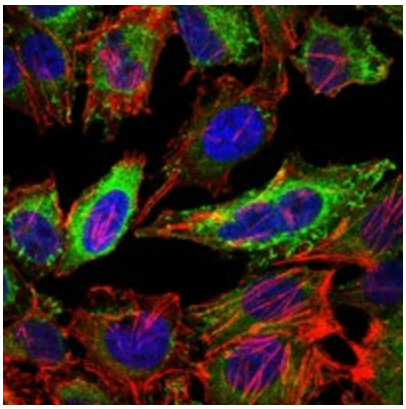
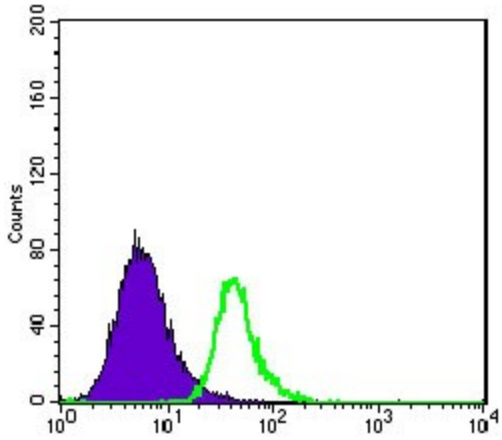


Immunohistochemistry-Paraffin: ABCG2 Antibody (3G8) TA336921 - Immunohistochemical analysis of paraffin-embedded bladder cancer tissues (left) and skeletal muscle tissues (right) using ABCG2 mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: ABCG2 Antibody (3G8) TA336921 - 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.



Flow Cytometry: ABCG2 Antibody (3G8) TA336921 - Flow cytometric analysis of HepG2 cells using ABCG2 mouse mAb (green) and negative control (purple).

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