

Product datasheet for **TA336921**

ABCG2 Mouse Monoclonal Antibody [Clone ID: 3G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G8
Applications:	ELISA, FC, ICC/IF, IHC, WB
Recommended Dilution:	Flow Cytometry: 1:200-1:400, ELISA: 1:10000, Immunohistochemistry: 1:10-1:500, Immunocytochemistry/ Immunofluorescence: 1:200-1:1000, Western Blot: 1:500-1:2000, Immunohistochemistry-Paraffin: 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:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
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 Mouse Entrez Gene 9429 Human Q9UNQ0



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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.

Synonyms:

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

Note:

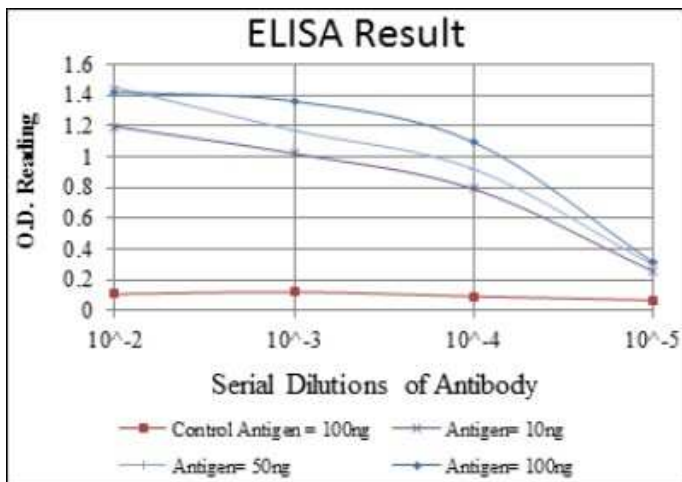
This ABCG2 (3G8) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections, Immunocytochemistry/Immunofluorescence, Flow Cytometry and ELISA. In WB a dimer can be seen at 60-70 kDa representing ABCG2.

Protein Families:

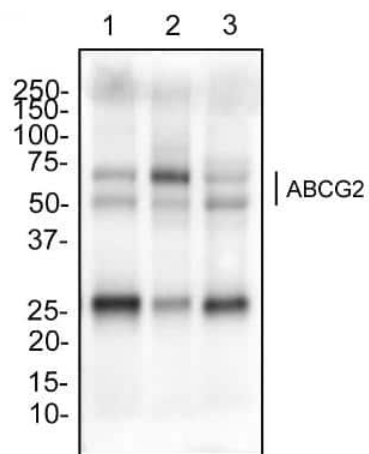
Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

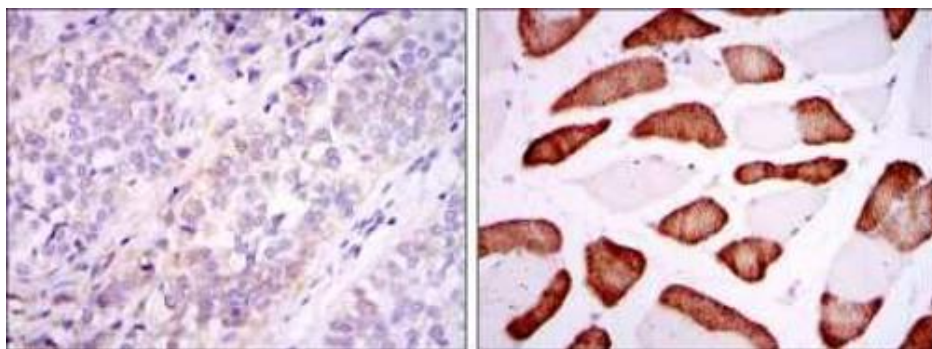
ABC transporters

Product images:


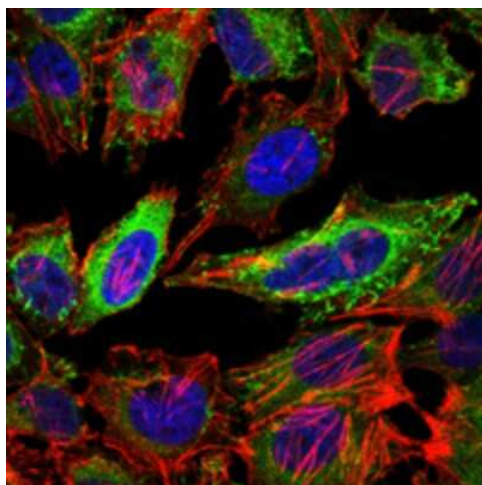
ELISA: ABCG2/CD338 Antibody (3G8) TA336921 - Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng).



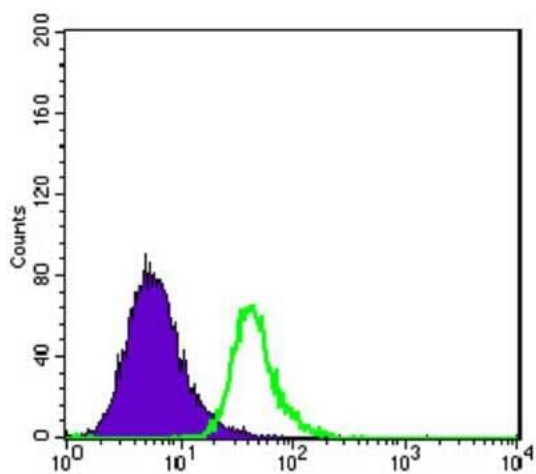
Western Blot: ABCG2/CD338 Antibody (3G8) TA336921 - Analysis of ABCG2 expression in (1) human small intestine, (2) human placenta and (3) mouse placenta tissue extracts.



Immunohistochemistry-Paraffin: ABCG2/CD338 Antibody (3G8) TA336921 - Analysis of paraffin-embedded bladder cancer tissues (left) and skeletal muscle tissues (right) using ABCG2 mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: ABCG2/CD338 Antibody (3G8) TA336921 - Analysis of HeLa cells using ABCG2 mouse mAb (green), DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor-555 phalloidin (red).



Flow Cytometry: ABCG2/CD338 Antibody (3G8)
TA336921 - Analysis of HepG2 cells using ABCG2
mouse mAb (green) and negative control (purple).