

Product datasheet for **AM06628SU-N**

ABCG2 Mouse Monoclonal Antibody [Clone ID: 3G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G8
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/2000. Immunohistochemistry on Paraffin Sections: 1/200-1/1000. Immunofluorescence: 1/200-1/1000. Flow Cytometry: 1/200-1/400. ELISA: 1/10000.
Reactivity:	Human, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human ABCG2 expressed in E. Coli.
Specificity:	This antibody reacts to ABCG2.
Formulation:	State: Ascites State: Ascitic fluid Preservative: 0.03% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	72 kDa
Gene Name:	ATP binding cassette subfamily G member 2 (Junior blood group)
Database Link:	Entrez Gene 9429 Human Q9UNQ0



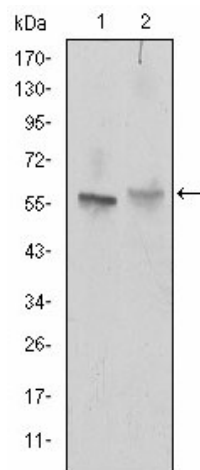
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Background:

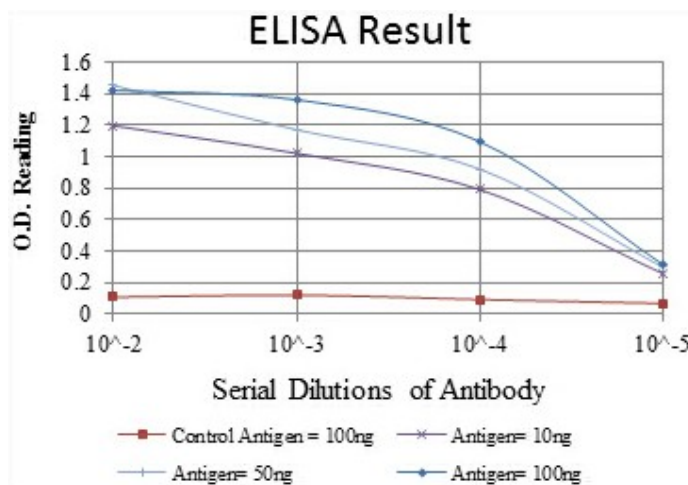
The membrane-associated protein encoded by this gene is included in the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, 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:

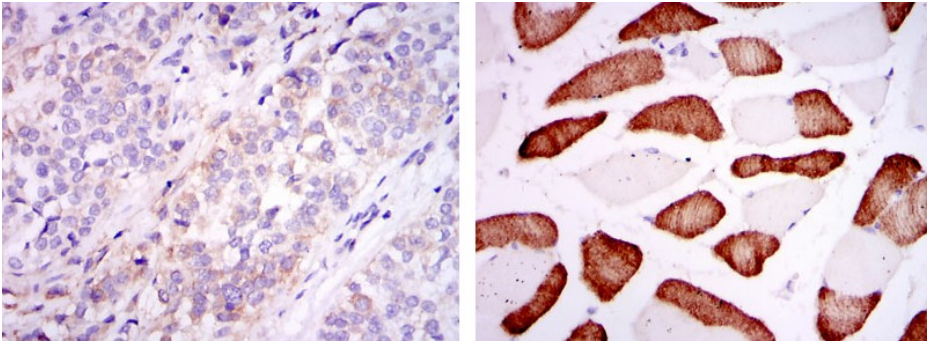
Breast cancer resistance protein 1, ABCP, MXR

Product images:


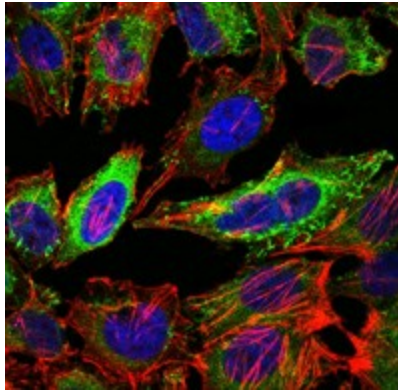
Western blot analysis using ABCG2 mouse mAb against NIH/3T3 (1) and Cos7 (2) cell lysate.



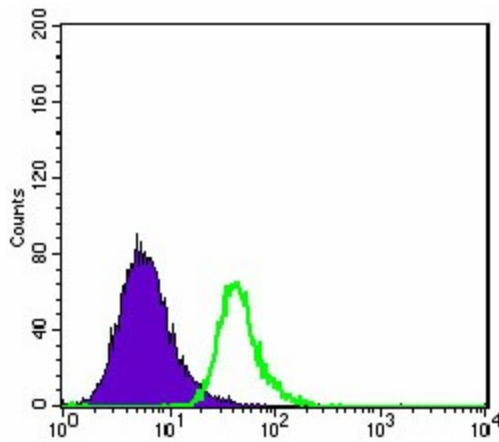
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded 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.



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