ABCG2 Antibody	<b>Cell Signaling</b> TECHNOLOGY®			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
47	Web:	info@cellsignal.com cellsignal.com		
#44	3 Trask Lane   Danvers   Massachusetts   01923   USA			
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 65-80	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9UNQ0	Entrez-Gene Id 9429	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sens	itivity	ABCG2 Antibody detects endogenous levels of total ABCG2 protein.					
Species predicte based on 100% s homology		Monkey, Xenopus, Bovine, Dog					
Source / Purifica	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr180 of human ABCG2 protein, which lies within the intracellular region of ABCG2. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		ABCG2 (BCRP1/ABCP/MXR) is a member of the ATP-binding cassette transporter family that functions as ATP-dependent transporters for a wide variety of chemical compounds and are associated with drug-resistance in cancer cells (1-6). ABCG2 is a heavily glycosylated transmembrane protein with six transmembrane spanning regions consistent with it functioning as a half-transporter. The ABC family can exist as either full-length transporters or as half-transporters that form functional transporters through homo- or heterodimerization. High expression of ABCG2 was found in placenta as well as cell lines selected for resistance to a number of chemotherapeutic drugs, including mitoxantrone, doxorubicin, topotecan and flavopiridol. In rodents, the highest expression of ABCG2 was found in kidney (8). ABCG2 expression has also been observed in stem cell populations, particularly in hematopoietic and neuronal stem cells and is downregulated with differentiation (9-11).					
Background Ref	ferences	<ol> <li>Doyle, L.A. and Ross, D.D. (2003) Oncogene 22, 7340-58.</li> <li>Allen, J.D. et al. (1999) Cancer Res 59, 4237-41.</li> <li>Doyle, L.A. et al. (1998) Proc Natl Acad Sci U S A 95, 15665-70.</li> <li>Allikmets, R. et al. (1998) Cancer Res 58, 5337-9.</li> <li>Miyake, K. et al. (1999) Cancer Res 59, 8-13.</li> <li>Robey, R.W. et al. (2001) Clin Cancer Res 7, 145-52.</li> <li>Zhou, S. et al. (2001) Nat Med 7, 1028-34.</li> <li>Honscha, W. et al. (2000) Hepatology 31, 1296-304.</li> <li>Scharenberg, C.W. et al. (2002) Blood 99, 507-12.</li> <li>Islam, M.O. et al. (2005) Neurosci Res 52, 75-82.</li> <li>Bunting, K.D. (2002) Stem Cells 20, 11-20.</li> </ol>					
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Bı	ıffer		or western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X en® 20 at 4°C with gentle shaking, overnight.				
Applications Ke	у	W: Western Blotting					
Cross-Reactivity	/ Кеу	H: Human M: Mouse R: Rat					
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