ABCG2 (D5V2K) XP[®] Rabbit mAb





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	activity: H M	Sensitivity: Endogenous	MW (kDa): 65-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UNQ0	Entrez-Gene Id: 9429		
Product Usage Information Storage		Application Western Blotting Immunoprecipitation Immunohistochemist Supplied in 10 mM so	ry (Paraffin)	5), 150 mM NaCl, 100 ца/	Dilution 1:1000 1:50 1:175 - 1: ² (ml BSA, 50% glycer			
		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #61474.						
Specificity/Sensitivit	y	ABCG2 (D5V2K) XP [®] Rabbit mAb recognizes endogenous levels of total ABCG2 protein.						
Source / Purification	1	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp175 of human ABCG2 protein.						
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 Referen	ices	 S 1. Doyle, L.A. and Ross, D.D. (2003) Oncogene 22, 7340-58. 2. Allen, J.D. et al. (1999) Cancer Res 59, 4237-41. 3. Doyle, L.A. et al. (1998) Proc Natl Acad Sci U S A 95, 15665-70. 4. Allikmets, R. et al. (1998) Cancer Res 58, 5337-9. 5. Miyake, K. et al. (1999) Cancer Res 59, 8-13. 6. Robey, R.W. et al. (2001) Clin Cancer Res 7, 145-52. 7. Zhou, S. et al. (2001) Nat Med 7, 1028-34. 8. Honscha, W. et al. (2000) Hepatology 31, 1296-304. 9. Scharenberg, C.W. et al. (2002) Blood 99, 507-12. 10. Islam, M.O. et al. (2005) Neurosci Res 52, 75-82. 11. Bunting, K.D. (2002) Stem Cells 20, 11-20. 						
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity Key		H: Human M: Mouse						
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