2559 Store at -200

MRP2/ABCC2 (D9F9E) Rabbit



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): >200	Source/Isotype: Rabbit IgG	UniProt ID: #Q92887	Entrez-Gene Id 1244	
Product Usage Information	Ap	Application			Dilution		
	We	estern Blotting			1:1000		
	Imi	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	tivity MRI	MRP2/ABCC2 (D9F9E) Rabbit mAb recognizes endogenous levels of total MRP2 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg864 of human MRP2 protein.					
Background	cas: mer (2). dox: liver gluc of e syne	Multi-drug resistance protein 2 (MRP2), also known as cMRP, cMOAT, and ABCC2, is an ATP binding cassette (ABC) transporter and part of the multi-drug resistance (MRP) family (1,2). The MRP proteins are membrane proteins that function as organic anion pumps involved in the cellular removal of cancer drugs (2). MRP2 is associated with resistance to a number of cancer drugs, such as cisplatin, etoposide, doxorubicin, and methotrexate (3-5). MRP2 is predominately expressed on the apical membranes in the liver (6-9) and kidney proximal tubules (10). It is responsible for the ATP-dependent secretion of bilirubin glucuronides and other organic anions from hepatocytes into the bile, a process important for the excretion of endogenous and xenobiotic substances. Loss of MRP2 activity is the cause of Dubin-Johnson syndrome, an autosomal recessive disorder characterized by defects in the secretion of anionic conjugates and the presence of melanin like pigments in hepatocytes (11-13).					
 Keppler, D. and Konig, J. (1997) FASEB J 11, 509-16. Borst, P. et al. (2000) J Natl Cancer Inst 92, 1295-302. Taniguchi, K. et al. (1996) Cancer Res 56, 4124-9. Hooijberg, J.H. et al. (1999) Cancer Res 59, 2532-5. Cui, Y. et al. (1999) Mol Pharmacol 55, 929-37. Büchler, M. et al. (1996) J Biol Chem 271, 15091-8. Paulusma, C.C. et al. (1996) Science 271, 1126-8. Mayer, R. et al. (1995) J Cell Biol 131, 137-50. Ito, K. et al. (1998) J Biol Chem 273, 1684-8. Schaub, T.P. et al. (1997) J Am Soc Nephrol 8, 1213-21. Dubin, I.N. and Johnson, F.B. (1954) Medicine (Baltimore) 33, 155-97. 							

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.

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

Applications Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

12. Kartenbeck, J. et al. (1996) Hepatology 23, 1061-6. 13. Paulusma, C.C. et al. (1997) Hepatology 25, 1539-42.

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