

**MRP2/ABCC2 (D9F9E) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> >200	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92887	<b>Entrez-Gene Id:</b> 1244
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:50

**Storage**

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.

**Specificity/Sensitivity**

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**

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).

**Background References**

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2. Borst, P. et al. (2000) *J Natl Cancer Inst* 92, 1295-302.
3. Taniguchi, K. et al. (1996) *Cancer Res* 56, 4124-9.
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6. Büchler, M. et al. (1996) *J Biol Chem* 271, 15091-8.
7. Paulusma, C.C. et al. (1996) *Science* 271, 1126-8.
8. Mayer, R. et al. (1995) *J Cell Biol* 131, 137-50.
9. Ito, K. et al. (1998) *J Biol Chem* 273, 1684-8.
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11. Dubin, I.N. and Johnson, F.B. (1954) *Medicine (Baltimore)* 33, 155-97.
12. Kartenbeck, J. et al. (1996) *Hepatology* 23, 1061-6.
13. Paulusma, C.C. et al. (1997) *Hepatology* 25, 1539-42.

**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

**Cross-Reactivity Key**

**H:** Human

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