

#39909 Store at -20°C

MRP3/ABCC3 (D8V8J) Rabbit mAb



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	160-220	Rabbit IgG	#O15438	8714

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

MRP3/ABCC3 (D8V8J) Rabbit mAb recognizes endogenous levels of total MRP3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Gly870 of human MRP3 protein.

Background

MRP3/ABCC3 belongs to the super family of ATP-binding cassette (ABC) transporters. It is a member of the MRP subfamily that is expressed in various organs including liver, gallbladder, small intestine, colon, kidney, and adrenal gland (1-3). MRP3 is involved in multi-drug resistance (1). It facilitates the efflux of organic anions including monoanionic bile acid and anti-cancer reagents such as etoposide and paclitaxel from liver and small intestine into blood (4-7). Expression of MRP3 is increased in the cholestatic human and rat liver, suggesting its role in cholehepatic and enterohepatic bile circulation and in protecting liver from toxic bile salts (2,8). MRP3 expression is also upregulated in people with Dubin-Johnson Syndrome (DJS) who lack functional MRP2 in the liver, which implicates the compensatory role of MRP3 in the absence of functional MRP2 (4).

Elevated expression of MRP3 has been detected in various cancer types such as hepatocellular carcinomas, primary ovarian cancer, and adult acute lymphoblastic leukemia (ALL) (9-11). Overexpression of MRP3 was reported to be a prognostic factor in ALL and adult acute myeloid leukemia (AML) (11,12).

Background References

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3. Kiuchi, Y. et al. (1998) *FEBS Lett* 433, 149-52.
4. König, J. et al. (1999) *Hepatology* 29, 1156-63.
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6. Belinsky, M.G. et al. (2005) *Mol Pharmacol* 68, 160-8.
7. Dickerson, W.G. (1992) *Dent Today* 11, 54-5.
8. Soroka, C.J. et al. (2001) *Hepatology* 33, 783-91.
9. Nies, A.T. et al. (2001) *Int J Cancer* 94, 492-9.
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12. Benderra, Z. et al. (2005) *Clin Cancer Res* 11, 7764-72.

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

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity 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

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