

MRP6/ABCC6 (D9D1F) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	160-200	Rabbit IgG	#O95255	368

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

MRP6/ABCC6 (D9D1F) Rabbit mAb recognizes endogenous levels of total MRP6 protein. This antibody also cross-reacts with unidentified proteins of 65 kDa and 135 kDa.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MRP6 protein.

Background

The multidrug resistance-associated protein 6 (MRP6, ABCC6) is a member of ATP-binding cassette (ABC) family transporters that move drugs and hydrophobic compounds across cell membranes. The MRP6 protein is expressed mainly in liver and kidney, and in other tissues to a lesser extent (1). Identified MRP6 substrates include the glutathione conjugate of N-ethylmaleimide (NEM-GS) and leukotriene C4 (LTC4), with more tentative MRP6 substrates under investigation (2,3). Research studies show that increased MRP6 expression correlates with induced cholesterol biosynthesis, which suggests that MRP6 may be involved in lipid and cholesterol homeostasis (4). A small isoform of MRP6 is up-regulated in HBV infected hepatocytes and protects the cells from apoptosis mediated by caspase 3 and caspase 8 (5,6). Mutations in the corresponding *ABCC6* gene cause pseudoxanthoma elasticum (PXE), an autosomal recessive disorder that is characterized by the accumulation of mineralized and fragmented elastic fibers in the skin, eyes, and arteries (7,8). Mutations in *ABCC6* also result in generalized arterial calcification of infancy, an ectopic calcification disease that lies along a spectrum of similar disorders with PXE (9).

Background References

1. Kool, M. et al. (1999) *Cancer Res* 59, 175-82.
2. Iliás, A. et al. (2002) *J Biol Chem* 277, 16860-7.
3. Belinsky, M.G. et al. (2002) *Cancer Res* 62, 6172-7.
4. Kuzaj, P. et al. (2014) *Lipids Health Dis* 13, 118.
5. Ostuni, A. et al. (2013) *FEBS Lett* 587, 3058-62.
6. Ostuni, A. et al. (2014) *Protein Pept Lett* 21, 413-8.
7. Bergen, A.A. et al. (2000) *Nat Genet* 25, 228-31.
8. Ringpfeil, F. et al. (2000) *Proc Natl Acad Sci U S A* 97, 6001-6.
9. Nitschke, Y. et al. (2012) *Am J Hum Genet* 90, 25-39.

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 **M:** Mouse **R:** Rat

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