



E92198

ABCC4 Polyclonal Antibody

Catalog Number: E92198

Amount: 100ul

Background: ABCC4 is a member of the ATP-binding Cassette (ABC) transporter family. ABC proteins transport various molecules across cellular membranes by utilizing the energy generated from ATP hydrolysis. There are seven subfamilies of ABC proteins: ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, and White (1). ABCC4 belongs to the MRP subfamily, which is involved in multi-drug resistance, hence it is also named MRP4. ABCC4 is widely expressed in cells and tissues including prostate, kidney proximal tubules, astrocytes and capillary endothelial cells of the brain, platelets, and many cancer cell lines (2-4). ABCC4 mediates efflux transport of a wide variety of endogenous and xenobiotic organic anionic compounds (5). The diversity of substrates determines the biological functions of ABCC4. It regulates cAMP levels in human leukemia cells, thereby controlling the proliferation and differentiation of leukemia cells (6). ABCC4 also enables COX deficient pancreatic cancer cells to obtain exogenous prostaglandins (7). Researchers have shown that ABCC4 expression is elevated in drug resistant cancer cells, which makes it a potential target for cancer therapy (8,9). ABCC4 localizes to both plasma membrane and intracellular membranous structures (10). Investigators have also implicated ABCC4 in the pathogenesis of Kawasaki disease, a genetic childhood disease characterized by vasculitis (11).

Species: Rabbit

Isotype: IgG

Storage/Stability: Store at -20°C or -80°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonyms: EST170205; MOAT-B; MOATB; MRP4;

Immunogen: Recombinant protein of human ABCC4

Purification: Affinity purification

Reactivity: H M R

Applications: WB IHC

Molecular Weight: 97kDa

Swiss-Prot No. : O15439

Gene ID: 10257

References: 1. Nakanishi, T. Cancer Genomics Proteomics 4, 241-54. 2. Kool, M. et al. (1997) Cancer Res 57, 3537-47. 3. Lee, K. et al. (1998) Cancer Res 58, 2741-7. 4. Nies, A.T. et al. (2004) Neuroscience 129, 349-60. 5. Giacomini, K.M. et al. (2010) Nat Rev Drug Discov 9, 215-36. 6. Copsel, S. et al. (2011) J Biol Chem 286, 6979-88. 7. Omura, N. et al. (2010) Mol Cancer Res 8, 821-32. 8. Bronger, H. et al. (2005) Cancer Res 65, 11419-28. 9. Hagmann, W. et al. (2009) Pancreatology 9, 136-44. 10. Rius, M. et al. (2008) J Pharmacol Exp Ther 324, 86-94. 11. Khor, C.C. et al. (2011) J Med Genet 48, 467-72.

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