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AM31991SU-N Monoclonal Antibody to ABCC11 / MRP8 - Supernatant

Alternate names: ATP-binding cassette transporter sub-family C member 11

Quantity: 1 ml

Concentration: 0.25 mg/ml (by ELISA)

Background: ABCC11 belongs to the ABC transporter family, conjugate transporter (TC 3.A.1.208) subfamily. It contains two ABC transmembrane type-1 domains and two ABC transporter domains.
ABCC11 participates in physiological processes involving bile acids, conjugated steroids and cyclic nucleotides and enhances the cellular extrusion of cAMP and cGMP. It also stimulates the ATP-dependent uptake of a range of physiological and synthetic lipophilic anions, including the glutathione S-conjugates leukotriene C4 and dinitrophenyl S-glutathione, steroid sulfates such as dehydroepiandrosterone 3-sulfate (DHEAS) and estrone 3-sulfate, glucuronides such as estradiol 17-beta-D-glucuronide (E(2)17betaG), the monoanionic bile acids glycocholate and taurocholate, and methotrexate. It probably functions to secrete earwax.

Uniprot ID: Q96J66

NCBI: NP_115972.2

GeneID: 85320

Host / Isotype: Rat / IgG

Clone: M8I-74

Immunogen: A bacterial fusion protein of Human MRP8, containing amino acids 1-83 of the protein.

Format:
State: Serum Free Culture Supernatant
Preservatives: 0.09% Sodium Azide
Stabilizers: 0.7% BSA

Applications:
Western blotting: Use at 1/20-1/50 and anti-Rat-HRP.
Immunocytochemistry: Use at 1/20-1/50 on Acetone Fixed Cytospin preparations.
Immunohistochemisty on Frozen Sections: 1/20 on Acetone Fixed Frozen sections can be followed by incubation with Rabbit anti-Rat Ig (1/25) and a monoclonal Rat APAAP complex (1/50). Alternatively, after incubation with M8I-74 (use 1/20) and washing, slides can be incubated with biotinylated Rabbit anti-Rat Ig (1/100) and streptavidin conjugated to Horseradish Peroxidase (1/500).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This Monoclonal antibody *clone* M8I-74 reacts with an internal epitope of MRP8 (ABCC11), an approximately 150 kD transmembrane protein that is related to the multidrug resistance protein MRP1.

Species Reactivity: **Tested:** Human.

Storage: Store antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings:

1. Kruh GD, Guo Y, Hopper-Borge E, Belinsky MG, Chen ZS. ABCC10, ABCC11, and ABCC12. Pflugers Arch. 2007 Feb;453(5):675-84. Epub 2006 Jul 26. PubMed PMID: 16868766.
2. de Wolf CJ, Yamaguchi H, van der Heijden I, Wielinga PR, Hundscheid SL, Ono N, et al. cGMP transport by vesicles from human and mouse erythrocytes. FEBS J. 2007 Jan;274(2):439-50. PubMed PMID: 17229149.
3. Oguri T, Bessho Y, Achiwa H, Ozasa H, Maeno K, Maeda H, et al. MRP8/ABCC11 directly confers resistance to 5-fluorouracil. Mol Cancer Ther. 2007 Jan;6(1):122-7. PubMed PMID: 17237272.
4. Park S, Shimizu C, Shimoyama T, Takeda M, Ando M, Kohno T, et al. Gene expression profiling of ATP-binding cassette (ABC) transporters as a predictor of the pathologic response to neoadjuvant chemotherapy in breast cancer patients. Breast Cancer Res Treat. 2006 Sep;99(1):9-17. Epub 2006 Jun 5. PubMed PMID: 16752223.
5. Yoshiura K, Kinoshita A, Ishida T, Ninokata A, Ishikawa T, Kaname T, et al. A SNP in the ABCC11 gene is the determinant of human earwax type. Nat Genet. 2006 Mar;38(3):324-30. Epub 2006 Jan 29. PubMed PMID: 16444273.