Recombinant Human ABCC2

Cat. No. ABCC2-2537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCC2 was produced inSf9 cells.
Species	Human
Source	Sf9 Cells
Description	MRP2 (ABCC2) is an organic anion transporter found in the liver, kidney, and gut epithelium apical membranes. The transport of glucuronate conjugates plays a role in the detoxification of endogenous and xenobiotic substances, and may cause multidrug resistance (MDR) in tumor cells.
Form	Supplied as isolated Sf9 cell membranes containing human MRP2 suspended in TMEP solution.
Biochem/physiol Actions	The vesicular transport assay determines the interaction of compounds with the MRP2 transporter. The interaction is detected by changes in the initial rate of 3H-β-estradiol 17-(β-D-glucuronide) transport by MRP2 into membrane vesicles purified from Sf9 cells expressing the transporters. Membrane preparations from infected cells always contain some closed membrane vesicles that have an inside-out orientation (5-10% of total lipid). In the case of these inside-out vesicles, transport of substrates across the membrane takes molecules from the surrounding buffer and transports them into the vesicles.
Analysis Note	The quantity of transported molecules can be determined by methods such as HPLC, LC/MS/MS separation and detection, and also by labeling with fluorescent or

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	radioactive (3H-β-estradiol 17-(β-D-glucuronide) tags. MRP2 mediates the transport of β-estradiol 17-(β-D-glucuronide) (E217βG) very efficiently. Compounds that interact with the transporter modulate the initial rate of E217βG transport measured without any other compounds added. If a substance is a transported substrate of the transporter, it might compete with E217βG, thus reducing the rate of E217βG transport. If a compound is an inhibitor of the transporter, it will block the transport of E217βG into the membrane vesicles. Some compounds can be co-transported with E217βG increasing the rate of E217βG transport compared to the control level.
Storage	−70°C.

GENE INFORMATION

Gene Name	ABCC2 ATP-binding cassette, sub-family C (CFTR/MRP), member 2 [Homo sapiens]
Synonyms	ABCC2; ATP-binding cassette, sub-family C (CFTR/MRP), member 2;ABC30; CMOAT; DJS; KIAA1010; MRP2; cMRP; OTTHUMP00000020267;canalicular multispecific organic anion transporter; Canalicular multispecific organic anion transporter 1;Multidrug resistance-associated protein 2; Canalicular multidrug resistance protein; CMOAT1; ATP-binding cassette sub-family C member 2
Gene ID	1244
mRNA Refseq	NM_000392
Protein Refseq	NP_000383
MIM	601107
UniProt ID	Q92887

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Chromosome Location	10q24
Pathway	ABC transporters - General
Function	ATP binding; ATPase activity; coupled to transmembrane movement of substances;nucleotide binding; organic anion transmembrane transporter activity; protein binding; transporter activity

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