Recombinant Human ABCB1, GST-tagged

Cat. No. ABCB1-2548H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The protein was expressed as GST-tagged fusion protein by E. coli and Purified by GSH-sepharose.
Species	Human
Source	E.coli
Description	The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier.
Antigen PeptideRegion	624-708aa
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.
Storage	The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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GENE INFORMATION

Gene Name	ABCB1 ATP-binding cassette, sub-family B (MDR/TAP), member 1 [Homo sapiens]
Official Symbol	ABCB1
Synonyms	ABCB1; ATP-binding cassette, sub-family B (MDR/TAP), member 1; CLCS; MDR1; P-GP; PGY1; ABC20; CD243; GP170; MGC163296; multidrug resistance protein 1; P-glycoprotein 1;colchicin sensitivity; doxorubicin resistance; EC 3.6.3.44
Gene ID	5243
mRNA Refseq	NM_000927
Protein Refseq	NP_000918
MIM	171050
UniProt ID	P08183
Chromosome Location	7q21.12
Pathway	ABC transporters; ABC-family proteins mediated transport; Bile secretion; Codeine and morphine metabolism; HIF-1-alpha transcription factor network; Nuclear receptors in lipid metabolism and toxicity; Transmembrane transport of small molecules
Function	ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement

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	of substances; hydrolase activity; nucleotide binding; protein binding; transporter activity; xenobiotic-transporting ATPase activity

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