

Recombinant Human ABCB1, His-tagged

Cat. No. ABCB1-30530TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1036-1280 of Human P Glycoprotein with N terminal His tag; Predicted MWt 28 kDa.
Species	Human
Source	E.coli
ProteinLength	1036-1280 a.a.
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.
Conjugation	HIS
Tissue specificity	Expressed in liver, kidney, small intestine and brain.
Form	Lyophilised:Reconstitute with 37 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TFGEVVFNYPTRPDIPVLQGLSLEVKKGQTLALVGSSGCG KSTVVQLLERFYDPLA GKVLLDGKEIKRLNVQWLRHL GIVSQEPILFDCSIAENIAYGDNRSRVVSQEEIVRAA KE ANIHAFIESLPNKYSTKVGDKGTQLSGGQKQRIAIARA LVRQPHILLDEATSALD TESEKVVQEALDKAREGRTCIV IAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQK GIY FSMVSVQAGTKRQ
Sequence Similarities	Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.Contains 2 ABC transmembrane type-1 domains.Contains 2 ABC transporter domains.

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, colchicin sensitivity , MDR1, PGY1; multidrug resistance protein 1; ABC20; CD243; GP170; P gp;
Gene ID	5243
mRNA Refseq	NM_000927
Protein Refseq	NP_000918

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MIM	171050
Uniprot ID	P08183
Chromosome Location	7q21.12
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; ABC-family proteins mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;
Function	ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; hydrolase activity; nucleotide binding;

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