

## Recombinant Human ABCB1, His-tagged

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

### SPECIFICATION

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

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<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	TFGEVVFNYPTRPDIPVLQGLSLEVKKGQTLALVGSSGCG KSTVVQLLERFYDPLA GKVLDDGKEIKRLNVQWLR AHL GIVSQEPILFDCSIAENIAYGDNSRVVSQEEIVRAA KE ANIHAFIESLPNKYSTKVGDKGTQLSGGQKQRIAIARA LVRQPHILLDEATSALD TESEKVVQEALDKAREGRTCIV IAHLSTIQNADLIVVFQNGRVKEHGTHQQLLAQK GIY FSMVSVQAGTKRQ
<b>Sequence Similarities</b>	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

<b>Gene Name</b>	<a href="#">ABCB1 ATP-binding cassette, sub-family B (MDR/TAP), member 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ABCB1</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">5243</a>
<b>mRNA Refseq</b>	<a href="#">NM_000927</a>
<b>Protein Refseq</b>	<a href="#">NP_000918</a>

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<b>MIM</b>	171050
<b>Uniprot ID</b>	P08183
<b>Chromosome Location</b>	7q21.12
<b>Pathway</b>	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;
<b>Function</b>	ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; hydrolase activity; nucleotide binding;

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