

Recombinant Human ABCB1 Protein, GST-Tagged

Cat. No. ABCB1-037H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ABCB1 partial ORF (NP_000918, 620 a.a. - 709 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<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. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]</p>
Molecular Mass	35.64 kDa
AA Sequence	GIYFKLVMTAGNEVELENAADESKSEIDALEMSSNDSRSSLIRKRSTRRSVGRSQ

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AQDRKLSTKEALDESIPPVSFWRIMKLNLTWEP

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; P-glycoprotein 1; colchicin sensitivity; doxorubicin resistance; CLCS; MDR1; P-GP; PGY1;

Gene ID

[5243](#)

mRNA Refseq

[NM_000927](#)

Protein Refseq

[NP_000918](#)

MIM

[171050](#)

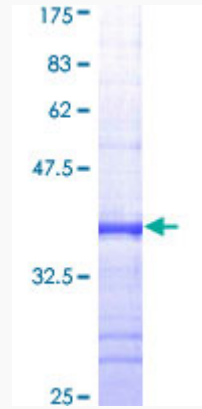
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UniProt ID

P08183



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