

Recombinant Human ABCG2, GST-tagged

Cat. No. ABCG2-19H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ABCG2(1 a.a. - 655 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.

Species Human

Source Wheat Germ

ProteinLength 1-655 a.a.

Description The membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. Multiple transcript variants encoding different isoforms have been found for this gene.

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

Molecular Mass 98.7 kDa

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AA Sequence	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKCLKSGFLPCRK PVEKEILSNINGIMKPGL NAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPA NFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLAT TMTNHEKNERINRVIQELGLD KVADSKVGTQFIRGVSSGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVL LLLK RMSKQGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAY NNPADFFLDIING DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKA ELHQLSGGEKKKKITVFKEISYTTSFCH QLRWVSKRSFKNLLGNPQASIAQIIVTVVL GLVIGAIYFGLKNDSTGIQNRAGVLFLLTTNQCFSVSAVELFVV EKKLFIHEYISGY RVSSYFLGKLLSDLLPMRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASS MAL AIAAGQSVVSVATLLMTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTA LQHNEFLGQNFPCPLNATGN NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALAC MIVIFLTIAYLKLLFLKKYS
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.

GENE INFORMATION

Gene Name	ABCG2 ATP-binding cassette, sub-family G (WHITE), member 2 (Junior blood group) [<i>Homo sapiens</i>]
Official Symbol	ABCG2
Synonyms	MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; CDw338; UAQTL1; EST157481; ATP-binding cassette sub-family G member 2; ABC transporter; ATP-binding cassette transporter G2; breast cancer resistance protein;

mitoxantrone resistance-associated protein; multi drug resistance efflux transport ATP-binding cassette sub-family G (WHITE) member 2; placenta specific MDR protein; placenta-specific ATP-binding cassette transporter; urate exporter

Gene ID 9429

mRNA Refseq NM_001257386

Protein Refseq NP_001244315

MIM 603756

UniProt ID Q9UNQ0

Chromosome Location 4q22

Pathway ABC transporters, organism-specific biosystem; Abacavir transmembrane transport, organism-specific biosystem; Fluoropyrimidine Activity, organism-specific biosystem

Function ATP binding; ATPase activity, coupled to transmembrane movement of substances; heme transporter activity

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