

Recombinant Human ABCG2 Protein, GST-Tagged

Cat. No. ABCG2-067H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABCG2 partial ORF (NP_004818.2, 156 a.a. - 265 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Apr 2012]
Molecular Mass	37.84 kDa
AA Sequence	EKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTT GLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTLASGRMLM

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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	ABCG2 ATP-binding cassette, sub-family G (WHITE), member 2 [Homo sapiens]
Official Symbol	ABCG2
Synonyms	ABCG2; ATP-binding cassette, sub-family G (WHITE), member 2; ATP-binding cassette sub-family G member 2; ABCP; BCRP; CD338; EST157481; MXR; ABC transporter; placenta specific MDR protein; breast cancer resistance protein; ATP-binding cassette transporter G2; mitoxantrone resistance-associated protein; placenta-specific ATP-binding cassette transporter; multi drug resistance efflux transport ATP-binding cassette sub-family G (WHITE) member 2; MRX; BMDP; MXR1; ABC15; BCRP1; GOUT1; CDw338; UAQTL1; MGC102821;
Gene ID	9429
mRNA Refseq	NM_001257386
Protein Refseq	NP_001244315

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MIM	603756
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UniProt ID	Q9UNQ0
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