

Recombinant Human ABCG2 Protein

Cat. No. ABCG2-065H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABCG2 full-length ORF (AAH21281.1) recombinant protein without tag.
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]
Form	Liquid
Molecular Mass	72.3 kDa
AA Sequence	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRK PVEKEILSNINGIMKPGLNAILGPTGGGKSSLLDVLARKDPSGLSGDVLINGAPRPA

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NFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDK
 VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKR
 MSKQGRTIIFSHPQPRYSIFKLFDSTLLASGRLMFHGPAQEALGYFESAGYHCEAYN
 NPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAE
 LHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGL
 VIGAIYFGLKNDSTGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRV
 SSYFLGKLLSDLLPMRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMA
 LAIAAGQSVVSVATLLMTICFVMMIFSGLLVNLTTIASWLSWLQYFIPRYGFTALQH
 NEFLGQNFPCPLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVI
 FLTIAYLKLLFLKKYS

Applications

Antibody Production
 Functional Study
 Compound Screening

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

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

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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
MIM	603756
UniProt ID	Q9UNQ0