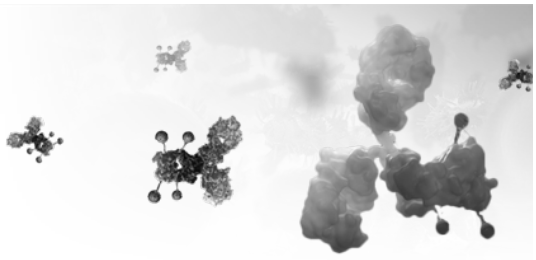

Human ABCG2 peptide (DAG-P1327)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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]
Specificity	Highly expressed in placenta. Low expression in small intestine, liver and colon.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.Contains 1 ABC transmembrane type-2 domain.Contains 1 ABC transporter domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ABCG2 ATP-binding cassette, sub-family G (WHITE), member 2 [Homo sapiens (human)]

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Official Symbol	ABCG2
Synonyms	ABCG2; ATP-binding cassette, sub-family G (WHITE), member 2; MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; CDw338; UAQTL1; EST157481; ATP-binding cassette sub-family G member 2; urate exporter; 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;
Entrez Gene ID	9429
mRNA Refseq	NM_001257386.1
Protein Refseq	NP_001244315.1
UniProt ID	Q9UNQ0
Chromosome Location	4q22
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Abacavir transmembrane transport, organism-specific biosystem; Abacavir transport and metabolism, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Fluoropyrimidine Activity, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Irinote
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; heme transporter activity; protein binding; protein homodimerization activity; transporter activity; xenobiotic-transporting ATPase activity;

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