



# Anti-ABCG2 (aa 550-650) polyclonal antibody (CPBT-50876RH)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Polyclonal antibody to Human ABCG2.
<b>Antigen Description</b>	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.
<b>Specificity</b>	Highly expressed in placenta. Low expression in small intestine, liver and colon.
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 550 - 650 of Human BCRP/ABCG2. ( Immunogen available as <a href="#">DAG-P1327</a> )
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse, Human, Pig
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Sequence Similarities</b>	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.

<b>Cellular Localization</b>	Cell membrane.
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Preservative: 0.02% Sodium AzideConstituents: 1% BSA, PBS, pH 7.4
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ABCG2 ATP-binding cassette, sub-family G (WHITE), member 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	ABCG2
<b>Synonyms</b>	ABCG2; ATP-binding cassette, sub-family G (WHITE), member 2; ATP-binding cassette sub-family G member 2; ABCP; BCRP; CD338; EST157481; MXR; ABC15; ABCG 2; ABCG2; ABCG2_HUMAN; ABCP; ATP-binding cassette sub-family G member 2; BCRP1; BMDP; Breast cancer resistance protein; CD338; CDw338; CDw338 antigen; EST157481; MGC102821; Mitoxantrone resistance associated protein; Mitoxantrone resistance-associated protein; MRX; MXR; MXR1; Placenta specific ATP binding cassette transporter; Placenta-specific ATP-binding cassette transporter; ABC transporter; placenta specific MDR protein; mitoxantrone resistance 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; CDw338;
<b>Entrez Gene ID</b>	<a href="#">9429</a>
<b>Protein Refseq</b>	<a href="#">NP_004818</a>
<b>UniProt ID</b>	<a href="#">Q9UNQ0</a>
<b>Chromosome Location</b>	4q22-q23
<b>Pathway</b>	ABC transporters, organism-specific biosystem; ABC transporters, conserved 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;

Irinotecan Pathway, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Transmembrane transport of sm

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**Function**

ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; heme transporter activity; nucleotide binding; protein binding; protein homodimerization activity; transporter activity; xenobiotic-transporting ATPase activit

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