

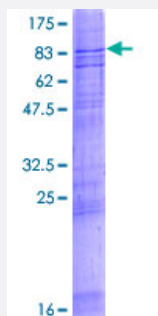
Full-Length

ABCG2 (Human) Recombinant Protein (P01)

Catalog # H00009429-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human ABCG2 full-length ORF (AAH21281.1, 1 a.a. - 655 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEILSNI
NGIMKPLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCNSGYVVQDDVVM
GTLTVRENLQFSAALRLATMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIG
MELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDLTLASGRMLFH
GPAQEALGYFESAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEI
YVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIVTV
VLGLVIGAIYFGLKNDSTGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLG
KLLSDLLPMRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATL
LMTICFVFMFISGLLVNLTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGNNPCNYA
TCTGEEYLVKQGIDLSPWGLWKNHVALACMMVIFLTIAYLKLLFLKKYS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.7

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ABCG2

Entrez GeneID	9429
GeneBank Accession#	BC021281.2
Protein Accession#	AAH21281.1
Gene Name	ABCG2
Gene Alias	ABC15, ABCP, BCRP, BCRP1, BMDP, CD338, CDw338, EST157481, MGC102821, MRX, M XR, MXR1
Gene Description	ATP-binding cassette, sub-family G (WHITE), member 2
Omim ID	603756
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]

Other Designations

ABC transporter|ATP-binding cassette transporter G2|ATP-binding cassette, sub-family G, member 2|breast cancer resistance protein|mitoxantrone resistance protein|placenta specific MDR protein

Pathway

- [ABC transporters](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)
- [Drug-Induced Liver Injury](#)
- [Edema](#)
- [Encephalomyelitis](#)

- [Epilepsies](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Gilbert Disease](#)
- [Glioma](#)
- [Gout](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hyperuricemia](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Mesothelioma](#)

- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Neurotoxicity Syndromes](#)
- [Neutropenia](#)
- [Obesity](#)
- [Opportunistic Infections](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pleural Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Stroke](#)
- [Urogenital Neoplasms](#)