SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human ABCG2 (ATP binding cassette subfamily G member 2 (Junior blood group)) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2848K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human ABCG2 membrane protein expressed *in vitro E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ABCG2

Protein Length
Full Length

Protein Class
Transport

TMD
6

Sequence
MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPGLNAILGPTGGGKSS

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ABCG2

Full Name

ATP binding cassette subfamily G member 2 (Junior blood group)

Introduction

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.

Alternative Names

ABCG2; MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; MXR-1; CDw338; UAQTL1; EST157481; broad substrate specificity ATP-binding cassette transporter ABCG2; ABC transporter; ATP-binding cassette transporter G2; ATP-binding cassette, sub-family G (WHITE), member 2 (Junior blood group); breast cancer resistance protein; mitoxantrone resistance-associated protein; multi drug resistance efflux transport ATP-binding cassette sub-family G (WHITE) member 2; placenta specific MDR protein; placenta-specific ATP-binding cassette transporter; urate exporter; ATP binding cassette subfamily G member 2 (Junior blood group)

Gene ID

9429

UniProt ID

Q9UNQ0

SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com