

Product Information

MemDX™ Membrane Protein Human ABCG2 (ATP binding cassette subfamily G member 2 (Junior blood group)) with GST-tag for Antibody Discovery

Cat. No.: **MP0014X**

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

This product is a 98.7 kDa Human ABCG2 membrane protein expressed in *in vitro* wheat germ 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

Molecular Weight

98.7 kDa

TMD

6

Sequence

MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPGLNAILGPTGGGKSS

Product Description

Application

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

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

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

ABC15; ABCP; BCRP; BCRP1; BMDP; CD338; CDw338; EST157481; MGC102821; MRX; MXR; MXR1; 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

Gene ID

[9429](#)

UniProt ID

[Q9UNQ0](#)