

# Product Information

## MemDX™ Membrane Protein Human ABCC5 (ATP binding cassette subfamily C member 5) for Antibody Discovery

Cat. No.: **MP0006X**

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

This product is a 50.1 kDa Human ABCC5 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

ABCC5

#### Protein Length

Full-length

#### Molecular Weight

50.1 kDa

#### TMD

13

#### Sequence

MKDIDIGKEYIIPSPGYRSVRERTSTSGTHRDREDSKFRRTTRPLECQDALETAARAEGLSLDASMHSQLRILDEEHPKGKYHHGLSA

### 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

## Glutathione Sepharose 4 Fast Flow

### 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

ABCC5

### Full Name

ATP binding cassette subfamily C member 5

### Introduction

The protein encoded by this gene is a member of 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 MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercaptopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing results in multiple transcript variants.

### Alternative Names

ABC33; DKFZp686C1782; EST277145; MOAT-C; MOATC; MRP5; SMRP; pABC11; ATP-binding cassette, sub-family C, member 5; canalicular multispecific organic anion transporter C

### Gene ID

[10057](#)

### UniProt ID

[O15440](#)