

Product Information

MemDX™ Membrane Protein Human ABCB7 (ATP binding cassette subfamily B member 7) for Antibody Discovery

Cat. No.: **MP0002X**

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

This product is a 104.39 kDa Human ABCB7 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

ABCB7

Protein Length

Full-length

Molecular Weight

104.39 kDa

TMD

6

Sequence

PQWRPHQLGALGTARAYQQIPESLKSITWQRLGKGNSGQFLDAAKALQVWPLIEKRTCWHGHAGGGLHTDPKEGLKDVDTRKIIK

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**

ABCB7

Full Name

ATP binding cassette subfamily B member 7

Introduction

The membrane-associated 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been associated with mitochondrial iron accumulation and isodiscentric (X)(q13) and sideroblastic anemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Alternative Names

ABC7; ASAT; Atm1p; EST140535; ATP-binding cassette 7; ATP-binding cassette, sub-family B, member 7; OTTHUMP00000023578

Gene ID

[22](#)

UniProt ID

[Q75027](#)