

Product Information

MemDX™ Membrane Protein Human ABCB1 (ATP binding cassette subfamily B member 1, residues 347-710aa) expressed in Sf9 for Antibody Discovery

Cat. No.: **MP0091Q**

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

This product is a 41 kDa Human ABCB1 membrane protein expressed in Sf9. 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

ABCB1

Protein Length

Partial

Protein Class

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Molecular Weight

41 kDa

TMD

12

Sequence

MDLEGDRNGGAKKKKNFFKLNNKSEKDKKEKKPTVSVFSMFRYSNWLDKLYMVVGTAAIIHGAGLPLMMLVFGEMTDIFANAGNLE
VVFAMAVGQVSSFAPDYAKAKISAAHIIIMIEKTPLIDSYSTEGLMPNTLEGNTVFGEVVFNYPTRPDIPVLQGLSLEVKKGQTLALV

Product Description

Expression Systems

Sf9

Tag

C-Flag tag

Form

Powder

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol

Storage

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

Target**Target Protein**

ABCB1

Full Name

ATP binding cassette subfamily B member 1

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. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants.

Alternative Names

ABC20; CD243; CLCS; GP170; MDR1; P-GP; PGY1; ATP-dependent translocase ABCB1; ATP-binding cassette, sub-family B (MDR/TAP), member 1; P-glycoprotein 1; colchicin sensitivity; Phospholipid transporter ABCB1; CD243; doxorubicin resistance; multidrug resistance protein 1; ATP-binding cassette sub-family B member 1

Gene ID

[5243](#)

UniProt ID

[P08183](#)