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Product Information

MemDX™ Membrane Protein Human TAP1 (Transporter 1, ATP binding cassette subfamily B member) for Antibody Discovery

Cat. No.: **MP1330X**
This product is for research use only and is not intended for diagnostic use.

This product is a 113.6 kDa Human TAP1 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
TAP1

Protein Length
Full-length

Molecular Weight
113.6 kDa

TMD
10

Sequence
MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRPHRGAESPRPGRDRDGVRVPMASSRCPAPRGCRCLPGASLAWL

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

Protein Format
Liposome

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

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

Target

Target Protein

TAP1

Full Name

Transporter 1, ATP binding cassette subfamily B member

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 involved in the pumping of degraded cytosolic peptides across the endoplasmic reticulum into the membrane-bound compartment where class I molecules assemble. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

APT1; PSF1; ABC17; ABCB2; PSF-1; RING4; TAP1N; D6S114E; TAP1*0102N; antigen peptide transporter 1; ABC transporter, MHC 1; ATP-binding cassette sub-family B member 2; ATP-binding cassette, sub-family B (MDR/TAP), member 2; peptide supply factor 1; peptide transporter PSF1; peptide transporter TAP1; peptide transporter involved in antigen processing 1; really interesting new gene 4 protein; transporter 1 ATP-binding cassette sub-family B; transporter 1, ATP-binding cassette, sub-family B (MDR/TAP); transporter associated with antigen processing; transporter, ATP-binding cassette, major histocompatibility complex, 1

Gene ID

6890

UniProt ID

Q03518

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