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Product Information

MemDX™ Membrane Protein Human TAP2 (Transporter 2, ATP binding cassette subfamily B member) for Antibody Discovery

Cat. No.: **MP1331X**
This product is for research use only and is not intended for diagnostic use.

This product is a 101.2 kDa Human TAP2 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
TAP2

Protein Length
Full-length

Molecular Weight
101.2 kDa

Sequence
MRLPDLRPWTSLLLVDAALLWLLQGPLGTLLPQGLPGLWLEGTLRLGGLWGLLKLRGLLGFVGTLLLPLCLATPLTVSLRALVAGAS

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

TAP2

Full Name

Transporter 2, 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. This gene is located 7 kb telomeric to gene family member ABCB2. The protein encoded by this gene is involved in antigen presentation. This protein forms a heterodimer with ABCB2 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Alternative splicing of this gene produces products which differ in peptide selectivity and level of restoration of surface expression of MHC class I molecules.

Alternative Names

APT2; PSF2; ABC18; ABCB3; PSF-2; RING11; D6S217E; antigen peptide transporter 2; ABC transporter, MHC 2; ATP-binding cassette, sub-family B (MDR/TAP), member 3; peptide supply factor 2; peptide transporter PSF2; peptide transporter involved in antigen processing 2; really interesting new gene 11 protein; transporter 2, ABC (ATP binding cassette); transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)

Gene ID

6891

UniProt ID

Q03519

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