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Product Information

MemDX™ Membrane Protein Human TAP1 (Transporter 1, ATP binding cassette subfamily B member) Full Length

Cat. No.: **MPC1663K**
This product is for research use only and is not intended for diagnostic use.

This product is a 87.2 kDa Human TAP1 membrane protein expressed in Komagataella pastoris. 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

Protein Class
Transporter

Molecular Weight
87.2 kDa

TMD
10

Sequence
MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRPHRGAESPRP
GRDRDGVRVPMASSRCPAPRGCRCLPGASLAWLGTVLLLLADWVLLRTAL
PRIFSLLVPTALPLLRVWAVGLSRWAVLWLGACGVLRATVGSKSENAGAQ
GWLAALKPLAAALGLALPGLALFRELISWGAPGSADSTRLLHWGSHPTAF
VVSYAAALPAAALWHKLGSLWVPGGQGGSGNPVRRLLGCLGSETRRLSLF
LVLVVLSSLGEMAIPFFTGRLTDWILQDGSADTFTRNLTLMSILTIASAV
LEFVGDGIYNNTMGHVHSHLQGEVFGAVLRQETEFFQQNQTGNIMSRVTE
DTSTLSDSLSENLSLFLWYLVRGLCLLGIMLWGSVSLTMVTLITLPLLFL
LPKKVGKWYQLLEVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKF
REKLQEIKTLNQKEAVAYAVNSWTTSISGMLLKVGILYIGGQLVTSGAVS
SGNLVTFVLYQMQFTQAVEVLLSIYPRVQKAVGSSEKIFEYLDRTPRCPP
SGLLTPLHLEGLVQFQDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPN
GSGKSTVAALLQNLYQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQV
FGRSLQENIAYGLTQKPTMEEITAAAVKSGAHSFISGLPQGYDTEVDEAG
SQLSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQVEQLLYESPE
RYSRSVLLITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMV
QAPADAPE

Product Description

Expression Systems

Komagataella pastoris

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

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

TAP1; 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; Transporter 1, ATP binding cassette subfamily B member

Gene ID

6890

UniProt ID

Q03518