

Recombinant Human TAP2 cell lysate

Cat. No. TAP2-1736HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species

Human

Description

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 two products which differ in peptide selectivity and level of restoration of surface expression of MHC class I molecules.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

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GENE INFORMATION

Gene Name	TAP2 transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) [Homo sapiens]
Official Symbol	TAP2
Synonyms	TAP2; transporter 2, ATP-binding cassette, sub-family B (MDR/TAP); ABCB3; antigen peptide transporter 2; D6S217E; PSF2; RING11; ABC transporter, MHC 2; peptide supply factor 2; peptide transporter PSF2; peptide transporter TAP2; really interesting new gene 11 protein; transporter 2, ABC (ATP binding cassette); peptide transporter involved in antigen processing 2; ATP-binding cassette, sub-family B (MDR/TAP), member 3; APT2; ABC18; PSF-2;
Gene ID	6891
mRNA Refseq	NM_000544
Protein Refseq	NP_000535
MIM	170261
UniProt ID	Q03519
Chromosome Location	6p21.3
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen

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processing-Cross presentation, organism-specific biosystem;

Function

ATP binding; ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; MHC class I protein binding; TAP1 binding; TAP1 binding; TAP2 binding; nucleotide binding; oligopeptide-transporting ATPase activity; peptide antigen binding; peptide antigen-transporting ATPase activity; peptide transporter activity; contributes_to peptide transporter activity; protein binding; tapasin binding; transporter activity; transporter activity;

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