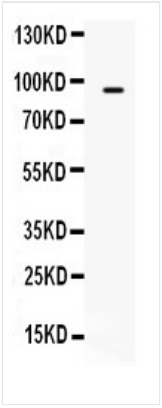
TAP2 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	TAP2, Polyclonal Antibody
Full Product Name	Anti-TAP2 Antibody
Product Gene Name	anti-TAP2 antibody
Product Synonym Names	Antigen peptide transporter 2; ABC transporter, MHC 2; ABC18; ABCB3; Antigen peptide transporter 2; APT2; ATP binding cassette, sub family B (MDR/TAP), member 3; D6S217E; Peptide supply factor 2; Peptide transporter involved in antigen processing 2; Peptide transporter PSF2; Peptide transporter TAP2; PSF 2; PSF2; Really interesting new gene 11 protein; RING 11; RING11; TAP 2; Transporter 2 ATP binding cassette sub family B; Transporter 2, ABC (ATP binding cassette; Transporter 2, ATP binding cassette, sub family B (MDR/TAP) antibody; transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Clonality	Polyclonal
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Purity/Purification	Immunogen Affinity Purified
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	72,003 Da
OMIM	170261
3D Structure	ModBase 3D Structure for Q03519
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TAP2 (611-651aa QKQRLAIARALVRDPRVLILDEATSALDVQCEQALQDWNSR), different from the related mouse sequence by five amino acids, and from the related rat sequence by six amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TAP2 antibody	Western Blot (WB)
Application Notes for anti-TAP2 antibody	Western Blot Concentration: 0.1-0.5ug/ml
Related Product Information for anti-TAP2 antibody	Description: Rabbit IgG polyclonal antibody for Antigen peptide transporter 2(TAP2) detection. Tested with WB in Human. Background: Transporter, ATP-binding cassette, major histocompatibility complex 2(TAP2) is a gene in humans that encodes the protein Antigen peptide transporter 2. The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. The gene is assigned to human chromosome 6p21.3. It is located 7 kb telomeric to gene family member ABCB2. The protein encoded by this gene is involved in antigen presentation. And this protein forms a heterodimer with ABCB2 in order to transport peptides from the cytoplasm to the endoplasmic reticulum.

Product References and Citations for anti-TAP2 antibody	1. Bodmer JG, Marsh SG, Albert ED, Bodmer WF, Dupont B, Erlich HA, Mach B, Mayr WR, Parham P (Oct 1992). "Nomenclature for factors of the HLA system, 1991. WHO Nomenclature Committee for factors of the HLA system". Tissue Antigens 39 (4): 161-73. 2. Bahram S, Arnold D, Bresnahan M, Strominger JL, Spies T (Dec 1991). "Two putative subunits of a peptide pump encoded in the human major histocompatibility complex class II region". Proc Natl Acad Sci U S A 88 (22): 10094-8. 3. Hahn Y, Lee B (Feb 2006). "Human-specific nonsense mutations identified by genome sequence comparisons". Hum Genet 119 (1-2): 169-78.
Other Notes	Small volumes of anti-TAP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TAP2 purchase	MBS178054 is an antibody targeting TAP2. Reactive in Human.



Western Blot (WB) of anti-TAP2 antibody
Anti-TAP2 Picoband antibody, MBS178054, Western blottingAll lanes: Anti TAP2 (MBS178054) at 0.5ug/mlWB: HELA Whole Cell Lysate at 40ugPredicted bind size: 87KDObserved bind size: 87KD

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAP2. It may not necessarily be applicable to this product.

NCBI GI #	73747915
NCBI GeneID	6891
NCBI Accession #	NP_000535.3
UniProt Primary Accession #	Q03519
UniProt Secondary Accession #	O95410; Q53FI6; Q5HY71; Q96PT8; Q9UQ83; B0V2J8
UniProt Related Accession #	Q03519
GenBank Nucleotide #	NM_000544.3
NCBI Official Full Name	antigen peptide transporter 2 isoform 1
NCBI Official Synonym Full Names	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
NCBI Official Symbol	TAP2
NCBI Official Synonym Symbols	APT2; PSF2; ABC18; ABCB3; PSF-2; RING11; D6S217E
UniProt Protein Name	Antigen peptide transporter 2
UniProt Synonym Protein Names	ATP-binding cassette sub-family B member 3; Peptide supply factor 2; Peptide transporter PSF2; PSF-2; Peptide transporter TAP2; Peptide transporter involved in antigen processing 2; Really interesting new gene 11 protein
Protein Family	Antigen peptide transporter
UniProt Gene Name	TAP2
UniProt Synonym Gene Names	ABCB3; PSF2; RING11; Y1; APT2; PSF-2

UniProt Entry Name	TAP2_HUMAN
NCBI Protein Information	antigen peptide transporter 2
NCBI Summary for TAP2	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. [provided by RefSeq, Feb 2014]
UniProt Comments for TAP2	TAP2: a 'transporter associated with antigen processing' (TAP) protein. Member of the ATP binding cassette (ABC) family of transmembrane transporters. Transports peptides across the endoplasmic reticulum membrane for assembly of major histocompatibility complex class I molecules. Two subunits, TAP1 and TAP2, are required for peptide transport. ATP hydrolysis is important for transport activity. Nascent MHC class I molecules associate with TAP via tapasin. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: endoplasmic reticulum membrane; integral to endoplasmic reticulum membrane; integral to membrane; membrane; TAP complex Molecular Function: ATP binding; peptide antigen-transporting ATPase activity; peptide transporter activity; protein binding; TAP1 binding; tapasin binding; transporter activity Biological Process: adaptive immune response; antigen processing and presentation of endogenous peptide antigen via MHC class I; antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway, TAP-dependent; antigen processing and presentation of endogenous peptide antigen via MHC class Ib via ER pathway, TAP-dependent; antigen processing and presentation of exogenous protein antigen via MHC class Ib, TAP-dependent; antigen processing and presentation of peptide antigen via MHC class I; cytosol to ER transport; intracellular transport of viral proteins in host cell; metabolic process; peptide antigen transport; positive regulation of antigen processing and presentation of peptide antigen via MHC class I; transmembrane transport Disease: Bare Lymphocyte Syndrome, Type I
Research Articles on TAP2	**1.** TAP/TPN complex formation is driven by hydrophobic interactions via leucine zipper-like motifs.
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