

Rabbit TAP2 Polyclonal Antibody | anti-TAP2 antibody

TAP2 Antibody

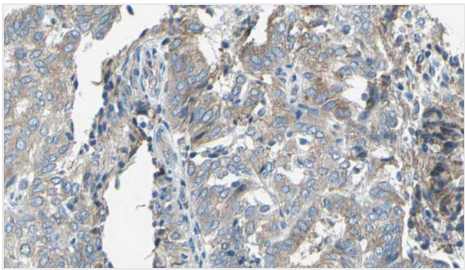
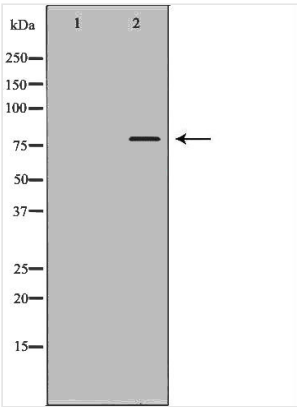
CATALOG # AAA326265	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

TAP2; Polyclonal Antibody; TAP2 Antibody; ABC transporter; MHC 2; ABC18; ABCB3; Antigen peptide transporter 2; APT2; ATP binding cassette; sub family B (MDR/TAP); member 3; ATP-binding cassette sub-family B member 3; D6S217E; Peptide supply factor 2; Peptide transporter involved in antigen processing 2; Peptide transporter PSF2; Peptide transporter TAP2; PSF 2; PSF-2; PSF2; Really interesting new gene 11 protein; RING 11; RING11; TAP 2; Tap2; TAP2_HUMAN; Transporter 2 ATP binding cassette sub family B; Transporter 2; ABC (ATP binding cassette; anti-TAP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TAP2 antibody detects endogenous levels of total TAP2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	703
Applicable Applications for anti-TAP2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TAP2
Subcellular Location	Endoplasmic Reticulum Membrane. The transmembrane segments seem to form a pore in the membrane.
Tissue Specificity	By IFNG/IFN-gamma.
Predicted Cross Reactivity	Pig, Horse, Rabbit, Xenopus
Similarity	Pig (82%), Horse (82%), Rabbit (90%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326265 at 1/100 staining Human cervical cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of placenta, using TAP2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TAP2 antibody

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. [provided by RefSeq, Jul 2008]

Function: Involved in the transport of antigens from the cytoplasm to the endoplasmic reticulum for association with MHC class I molecules. Also acts as a molecular scaffold for the final stage of MHC class I folding, namely the binding of peptide. Nascent MHC class I molecules associate with TAP via tapasin. Inhibited by the covalent attachment of herpes simplex virus ICP47 protein, which blocks the peptide-binding site of TAP. Inhibited by human cytomegalovirus US6 glycoprotein, which binds to the luminal side of the TAP complex and inhibits peptide translocation by specifically blocking ATP-binding to TAP1 and prevents the conformational rearrangement of TAP induced by peptide binding. Inhibited by human adenovirus E3-19K glycoprotein, which binds the TAP complex and acts as a tapasin inhibitor, preventing MHC class I/TAP association.

Subunit Structure: Heterodimer of TAP1 and TAP2. Interacts with Epstein-Barr virus BLNF2a. Interacts with herpes simplex virus ICP47 (PubMed:7760936).

Similarity: The peptide-binding site is shared between the cytoplasmic loops of TAP1 and TAP2. Belongs to the ABC transporter superfamily. ABCB family. MHC peptide exporter (TC 3.A.1.209) subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73747915
NCBI GeneID	6891
NCBI Accession #	NP_000535.3
NCBI GenBank Nucleotide #	NM_000544.3
UniProt Accession #	Q03519; O95410; Q53FI6; Q5HY71; Q96PT8; Q9UQ83; B0V2J8
Molecular Weight	Observed: 76 kDa Predicted: 76 kDa
NCBI Official Full Name	antigen peptide transporter 2 isoform 1
NCBI Official Synonym Full Names	transporter 2, ATP binding cassette subfamily B member

NCBI Official Symbol	TAP2
NCBI Official Synonym Symbols	APT2; PSF2; ABC18; ABCB3; PSF-2; RING11; D6S217E
NCBI Protein Information	antigen peptide transporter 2
UniProt Protein Name	Antigen peptide transporter 2
UniProt Gene Name	TAP2
UniProt Synonym Gene Names	ABCB3; PSF2; RING11; Y1; APT2; PSF-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/tap2-antibody-immunohistochemistry-western-blot-elisa/326265>