

Datasheet for 200-401-102**TAP1 Antibody****Overview**

Description:	Anti- α TAP (Human) (RABBIT) Antibody - 200-401-102
Item No.:	200-401-102
Size:	100 μ g
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	TAP1 (Transporter 1, ATP Binding Cassette Subfamily B Member) Members of the MDR/TAP subfamily are involved in multidrug resistance. TAP1 is involved in the pumping of degraded cytosolic peptides across the endoplasmic reticulum into the membrane-bound compartment where class I molecules assemble. It 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. It is inhibited by human adenovirus E3-19K glycoprotein, which binds the TAP complex and acts as a tapasin inhibitor, preventing MHC class I/TAP association. Expression of TAP1 is down-regulated by human Epstein-Barr virus vIL-10 protein, thereby affecting the transport of peptides into the endoplasmic reticulum and subsequent peptide loading by MHC class I molecules. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, celiac disease, Bare Lymphocyte Syndrome, Type I and Immunodeficiency by Defective Expression Of Hla Class 1. Anti-TAP1 Antibody is ideal for researchers interested in the Innate Immune System and Class I MHC.
Synonyms:	rabbit anti-TAP1 antibody, rabbit anti-ABCB2 antibody, TAP 1 antibody, PSF1 antibody, RING4 antibody, TAP1N antibody, Antigen peptide transporter 1, ATP-binding cassette sub-family B member 2, Transporter 1 ATP binding cassette sub family B (MDR/TAP) antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TAP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Transporter Associated Protein (TAP I) peptide corresponding to the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This product was prepared from monospecific antiserum by delipidation, salt fractionation and ion exchange chromatography. A single precipitin arc was observed against anti-Rabbit Serum when assayed by immunoelectrophoresis.
Relevant Links:	• NCBI - AAS55412.1 • UniProtKB - Q03518 • GeneID - 6890

Application Details

Application Note:	This product was assayed by ELISA against TAP-I peptide in an antibody sandwich assay using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. A dilution of 1:10,000 is suggested from this experiment. No reaction was observed against TAP-II. This product was assayed by immunoblotting and was reactive against the 72 kDa human TAP-I protein at a dilution of 1:1,000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. No reaction was observed against TAP-II.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.