

# ARG59077 anti-TAP2 antibody

Package: 100 μl Store at: -20°C

# Summary

Tested ReactivityHu, Ms, RatTested ApplicationICC/IF, IHC-P, WBHostRabbitClonalityPolyclonalsotypeIgGTarget NameTAP2SpeciesHumanmmunogenRecombinant fusion protein corresponding to aa. 430-680 of Human TAP2 (NP_000535.3).ConjugationUn-conjugated		
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ATP-binding cassette sub-family B member 3; Peptide transporter PSF2; Antigen peptide transporter 2;	Conjugation	Un-conjugated
	Alternate Names	ATP-binding cassette sub-family B member 3; Peptide transporter PSF2; Antigen peptide transporter 2;

#### **Application Instructions**

Predict Reactivity Note	Rat	
Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse spleen	
Observed Size	76kDa	

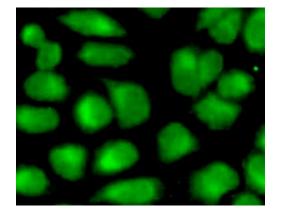
### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

## Bioinformation

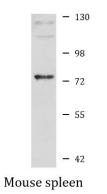
Gene Symbol	TAP2
Gene Full Name	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Background	The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular 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]
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 lumenal 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. [UniProt]
Calculated Mw	76 kDa
Cellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=The transmembrane segments seem to form a pore in the membrane. [UniProt]

### Images



#### ARG59077 anti-TAP2 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG59077 anti-TAP2 antibody.



### ARG59077 anti-TAP2 antibody WB image

Western blot: 25  $\mu g$  of Mouse spleen lysate stained with ARG59077 anti-TAP2 antibody at 1:1000 dilution.