**Product Datasheet**

# Tap1 Antibody FITC Conjugated

Catalog No: #C04321F

## Description

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|---|---|
| Product Name | Tap1 Antibody FITC Conjugated |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Purification | Purified by Protein A. |
| Applications | Flow-Cyt   IF |
| Species Reactivity | HuB MsB RtB B B B |
| Immunogen Description | KLH conjugated synthetic peptide aa 525-575 808 derived from human Tap1 ABCB2 |
| Conjugates | FITC |
| Target Name | Tap1 |
| Other Names | APT1; PSF1; ABC17; ABCB2; PSF-1; RING4; TAP1N; D6S114E; TAP1*12N; Antigen peptide transporter 1; ATP-binding cassette sub-family B member 2; Peptide supply factor 1; Peptide transporter PSF1; Peptide transporter TAP1; Peptide transporter involved in antigen processing 1; Really interesting new gene |
| Accession No. | Swiss-Prot#Q03518NCBI Gene ID6890 |
| Uniprot | Q03518 |
| GeneID | 6890; |
| Excitation Emission | 494nm 518nm |
| Cell Localization | Cytoplasm |
| Concentration | 1mg ml |
| Formulation | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |

## Application Details

Flow-Cyt=1:50-200B IF=1:50-200B

## Background

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. Expression of TAP1 is down-regulated by human Epstein-Barr virus vIL-1 protein, thereby affecting the transport of peptides into the endoplasmic reticulum and subsequent peptide loading by MHC class I molecules.

Note: This product is for in vitro research use only