

## Recombinant Rat Tap1, His-tagged

Cat. No. Tap1-3511R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Antigen peptide transporter 1 (Tap1)
<b>Species</b>	Rat
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	725
<b>Description</b>	has similarity to multidrug resistant transporters; may transport antigenic peptides across the endoplasmic reticulum membrane in preparation for MHC class I presentation .
<b>Form</b>	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
<b>Purity</b>	>90%
<b>Notes</b>	Small volumes of Tap1 recombinant protein 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.
<b>Storage</b>	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
<b>Storage Buffer</b>	PBS pH 7.4, 50% glycerol

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**Warning** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

**Gene Name** Tap1 transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [ *Rattus norvegicus* ]

**Official Symbol** Tap1

**Synonyms** Cim; Tap2; Abcb2; antigen peptide transporter 1; APT1; peptide transporter TAP1; transporter 1 ABC (ATP binding cassette); ATP-binding cassette sub-family B member 2; transporter 1 ATP-binding cassette sub-family B

**Gene ID** 24811

**mRNA Refseq** NM\_032055

**Protein Refseq** NP\_114444

**UniProt ID** P36370

**Chromosome Location** 20p12

**Pathway** ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Herpes simplex infection, organism-specific b

**Function** ADP binding; ADP binding; ADP binding; ATP binding; ATP binding; ATP binding;

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ATPase activity; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; MHC class I protein binding; MHC class I protein binding; MHC class I protein binding; TAP1 binding; TAP2 binding; TAP2 binding; nucleotide binding; nucleotide binding; oligopeptide-transporting ATPase activity; Contributes\_to peptide antigen binding; peptide antigen-transporting ATPase activity; peptide transporter activity; peptide transporter activity; contributes\_to peptide transporter activity; protein heterodimerization activity; protein homodimerization activity; tapasin binding; tapasin binding; transporter activity;

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