

Recombinant Human TAPBP

Cat. No. TAPBP-31499TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment Human Tapasin with N-terminal proprietary tag. Predicted MW 37.07kDa.
Species	Human
Source	Wheat Germ
ProteinLength	104 amino acids
Description	This gene encodes a transmembrane glycoprotein which mediates interaction between newly assembled major histocompatibility complex (MHC) class I molecules and the transporter associated with antigen processing (TAP), which is required for the transport of antigenic peptides across the endoplasmic reticulum membrane. This interaction is essential for optimal peptide loading on the MHC class I molecule. Up to four complexes of MHC class I and this protein may be bound to a single TAP molecule. This protein contains a C-terminal double-lysine motif (KKKAE) known to maintain membrane proteins in the endoplasmic reticulum. This gene lies within the major histocompatibility complex on chromosome 6. Alternative splicing results in three transcript variants encoding different isoforms.
Molecular Weight	37.070kDa inclusive of tags
Tissue specificity	Neutrophils, mostly in fully differentiated cells.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PGPPPFGLEWRRQHLGKGHLLLAATPGLNGQMPAAQEGAV AFAAWDDDEPWGP WTGNGTFWLPTVQPFQEGTYLATIHLP YLQGQVTLELAVYKPPKVSLMPAT
Sequence Similarities	Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

GENE INFORMATION

Gene Name	TAPBP TAP binding protein (tapasin) [Homo sapiens]
Official Symbol	TAPBP
Synonyms	TAPBP; TAP binding protein (tapasin); tapasin; TAPA;
Gene ID	6892
mRNA Refseq	NM_172209
Protein Refseq	NP_757346
MIM	601962
Uniprot ID	O15533
Chromosome	6p21.3

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Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem;
Function	MHC class I protein binding; TAP1 binding; TAP1 binding; TAP2 binding; TAP2 binding;

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