

Recombinant Human TAPBP Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. TAPBP-154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TAPBP MS Standard C13 and N15-labeled recombinant protein (NP_003181) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	47.63 kDa
AA Sequence	MKSLSLLLAVALGLATAVSAGPAVIECWVVEDASGKGLAKRPGALLLRQGPGEPPR PDLDPELYLSVHDPAGALQAAFRRYPRGAPAPHCEMSRFVPLPASAKWASGLTPA QNCPRALDGAWLMVSISSPVLSSLRLRPQPEPQQEPVLITMATVVLTVLTHTPAPR

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VRLGQDALLDLSFAYMPPTSEAASSLAPGPPPFGLEWRRQHLGKGHLLLAATPGLN
 GQMPAAQEGAVAFAAWDDDEPWGPWTGNGTFWLPRVQPFQEGTYLATIHLPLYLQ
 GQVTLELAVYKPPKVS LMPATLARAAPGEAPPELLCLVSHFYPSGGLEVEWELRGG
 PGGRSQKAEGQRWLSALRHSDGSVLSGLHQPPTTEQHGARYACRIHHPSLP
 ASGRSAEVTLEVAGLSGPSLEDSVGLFLSAFLLLGLFKALGWAAVYLSTCKDSKKKA
 ETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TAPBP TAP binding protein [Homo sapiens (human)]
Official Symbol	TAPBP
Synonyms	TAPBP; TAP binding protein; NGS17; TAPA; TPN; TPSN; tapasin; NGS-17; TAP binding protein (tapasin); TAP-associated protein
Gene ID	6892
mRNA Refseq	NM_003190

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Protein Refseq NP_003181

MIM 601962

UniProt ID O15533

SDS-PAGE



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