

Product datasheet for PH317968

Tapasin (TAPBP) (NM_003190) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TAPBP MS Standard C13 and N15-labeled recombinant protein (NP_003181)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217968
Predicted MW:	47.63 kDa
Protein Sequence:	>RC217968 representing NM_003190 Red=Cloning site Green=Tags(s)

MKSLSLLLAVALGLATAVSAGPAVIECFWVEDASGKGLAKRPGALLLRQGPGEPPRDLPELYLSVHD
PAGALQAAFRRYPRGAPAPHCMSRFVPLPASAKWASGLTPAQNCPRALDGAWLMVSISSPVLSSLLR
PQPEPQQEPVLIITMATVVLTVLTHTPAPRVRLGQDALLDLSFAYMPPTSEAASSLAPGPPPFLEWRRQH
LGKGHLLLAATPGLNGQMPAAQEGAVAF AAWDDDEPWGPWTGNGTFWLPRVQPFQEGTYLATIHLPLYQG
QVTLELAVYKPPKVSLMPATLARAAPGEAPPELLCLVSHFYPSGGLEVEWELRGGPGGRSQKAEGQRWLS
ALRHSDGSVSLSGHLQPPPVTTEQHGARYACRIHHPSLPASGRSAEVTLEVAGLSGPSLEDSVGLFLSA
FLLLGLFKALGWAAYVLTCKDSKKKAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003181</u>
RefSeq Size:	3629
RefSeq ORF:	1344
Synonyms:	NGS17; TAPA; TPN; TPSN



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Locus ID: 6892

UniProt ID: [O15533](#), [A0A024RCT1](#)

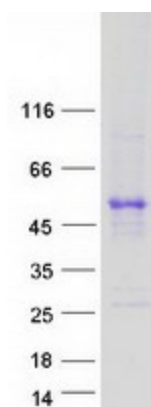
Cytogenetics: 6p21.32

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Antigen processing and presentation

Product images:



Coomassie blue staining of purified TAPBP protein (Cat# [TP317968]). The protein was produced from HEK293T cells transfected with TAPBP cDNA clone (Cat# [RC217968]) using MegaTran 2.0 (Cat# [TT210002]).