

## Recombinant Human TAPBP

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

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment Human Tapasin with N-terminal proprietary tag. Predicted MW 37.07kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>      | 104 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>        | <p>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.</p> |
| <b>Molecular Weight</b>   | 37.070kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue specificity</b> | Neutrophils, mostly in fully differentiated cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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

## GENE INFORMATION

|                        |                                                      |
|------------------------|------------------------------------------------------|
| <b>Gene Name</b>       | TAPBP TAP binding protein (tapasin) [ Homo sapiens ] |
| <b>Official Symbol</b> | TAPBP                                                |
| <b>Synonyms</b>        | TAPBP; TAP binding protein (tapasin); tapasin; TAPA; |
| <b>Gene ID</b>         | 6892                                                 |
| <b>mRNA Refseq</b>     | NM_172209                                            |
| <b>Protein Refseq</b>  | NP_757346                                            |
| <b>MIM</b>             | 601962                                               |
| <b>Uniprot ID</b>      | O15533                                               |
| <b>Chromosome</b>      | 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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