

# Recombinant Human PTTG1 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** PTTG1-120H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | PTTG1 MS Standard C13 and N15-labeled recombinant protein (NP_004210) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The encoded protein is a homolog of yeast securin proteins, which prevent separins from promoting sister chromatid separation. It is an anaphase-promoting complex (APC) substrate that associates with a separin until activation of the APC. The gene product has transforming activity in vitro and tumorigenic activity in vivo, and the gene is highly expressed in various tumors. The gene product contains 2 PXXP motifs, which are required for its transforming and tumorigenic activities, as well as for its stimulation of basic fibroblast growth factor expression. It also contains a destruction box (D box) that is required for its degradation by the APC. The acidic C-terminal region of the encoded protein can act as a transactivation domain. The gene product is mainly a cytosolic protein, although it partially localizes in the nucleus. Three transcript variants encoding the same protein have been found for this gene. |
| <b>Molecular Mass</b>   | 22 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MATLIYVDKENGEPGTRVVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALP<br>KATRKALGTVNRATEKSVKTKGPLKQKQPSFSAKKMTEKTVKAKSSVPASDDAYPEI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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EKFFPFNPLDFESFDLP EEHQIAHLPLSGVPLMILDEERELEKLFQLGPPSPVKMPSP  
PWESNLLQSPSSILSTLDVELPPVCCDIDITRTRPLEQKLISEEDLAANDILDYKDDDD  
KV

**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** PTTG1 PTTG1 regulator of sister chromatid separation, securin [ Homo sapiens (human) ]

**Official Symbol** PTTG1

**Synonyms** PTTG1; PTTG1 regulator of sister chromatid separation, securin; EAP1; HPTTG; PTTG; TUTR1; securin; ESP1-associated protein 1; pituitary tumor-transforming 1; pituitary tumor-transforming gene 1 protein; tumor-transforming protein 1

**Gene ID** 9232

**mRNA Refseq** NM\_004219

**Protein Refseq** NP\_004210

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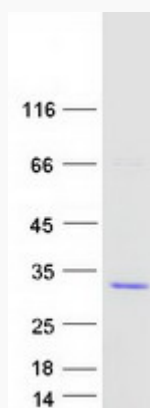
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MIM 604147

UniProt ID O95997

SDS-PAGE



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