

Recombinant Mouse Pttg1 Protein, Myc/DDK-tagged

Cat. No. Pttg1-5254M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pituitary tumor-transforming 1 (cDNA clone MGC:35993 IMAGE:4946234), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulatory protein, which plays a central role in chromosome stability, in the p53/TP53 pathway, and DNA repair. Probably acts by blocking the action of key proteins. During the mitosis, it blocks Separase/ESPL1 function, preventing the proteolysis of the cohesin complex and the subsequent segregation of the chromosomes. At the onset of anaphase, it is ubiquitinated, conducting to its destruction and to the liberation of ESPL1. Its function is however not limited to a blocking activity, since it is required to activate ESPL1. Negatively regulates the transcriptional activity and related apoptosis activity of p53/TP53. The negative regulation of p53/TP53 may explain the strong transforming capability of the protein when it is overexpressed. May also play a role in DNA repair via its interaction with Ku, possibly by connecting DNA damage-response pathways with sister chromatid separation.
Molecular Mass	21.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pttg1 pituitary tumor-transforming gene 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Pttg1
Synonyms	Pttg1; pituitary tumor-transforming gene 1; PTT; sec; Pttg; Pttg3; C87862; AW555095; securin; pituitary tumor-transforming 1; pituitary tumor-transforming gene 1 protein
Gene ID	30939
mRNA Refseq	NM_013917
Protein Refseq	NP_038945
UniProt ID	Q9CQJ7

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