Recombinant Human PTTG1, His-tagged

Cat. No. PTTG1-29693TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Securin, His-tagged, MW 24.1kDa, aa 1-202.
Species	Human
Source	E.coli
ProteinLength	1-202 a.a.
Description	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.
Conjugation	HIS
Tissue specificity	Expressed at low level in most tissues, except in adult testis, where it is highly expressed. Overexpressed in many patients suffering from pituitary adenomas, primary epithelial neoplasias, and esophageal cancer.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, pH 8
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MATLIYVDKE NGEPGTRVVA KDGLKLGSGP SIKALDGRSQ VSTPRFGKTF DAPPALPKAT RKALGTVNRA TEKSVKTKGP LKQKQPSFSA KKMTEKTVKA KSSVPASDDA YPEIEKFFPF NPLDFESFDL PEEHQIAHLP LSGVPLMILD EERELEKLFQ LGPPSPVKMP SPPWESNLLQ SPSSILSTLD VELPPVCCDI DI
Sequence Similarities	Belongs to the securin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	PTTG1 pituitary tumor-transforming 1 [Homo sapiens]
Official Symbol	PTTG1
Synonyms	PTTG1; pituitary tumor-transforming 1; TUTR1; securin; EAP1; ESP1 associated protein 1; HPTTG; PTTG; tumor transforming protein 1;
Gene ID	9232
mRNA Refseq	NM_004219

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Protein Refseq	NP_004210
MIM	604147
Uniprot ID	O95997
Chromosome Location	5q35.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
Function	SH3 domain binding; cysteine-type endopeptidase inhibitor activity; protein binding; sequence-specific DNA binding transcription factor activity;

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