

Product datasheet for PH311038

Securin (PTTG1) (NM_004219) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTTG1 MS Standard C13 and N15-labeled recombinant protein (NP_004210)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211038
Predicted MW:	22 kDa
Protein Sequence:	>RC211038 protein sequence Red=Cloning site Green=Tags(s) MATLIYVDKENGEPGTRVVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKATRKALGTVNRA TEKSVKTKGPKLQKQPSFSAKKMTKTVKAKSSVPASDDAYPEIEKFFPFNPLDFESFDLPEEHQIAHLP LSGVPLMILDEERELEKLFQLGPPSPVKMPSPWPWESNLLQSPSSILSTLDVELPPVCCDIDI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_004210</u>
RefSeq Size:	786
RefSeq ORF:	606
Synonyms:	EAP1; HPTTG; PTTG; TUTR1
Locus ID:	9232
UniProt ID:	<u>O95997</u> , <u>Q6IAL9</u>



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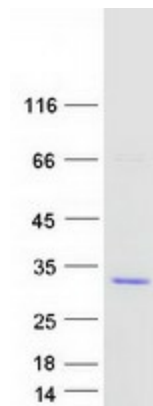
Cytogenetics: 5q33.3

Summary: 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. [provided by RefSeq, Sep 2013]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cell cycle, Oocyte meiosis

Product images:



Coomassie blue staining of purified PTTG1 protein (Cat# [TP311038]). The protein was produced from HEK293T cells transfected with PTTG1 cDNA clone (Cat# [RC211038]) using MegaTran 2.0 (Cat# [TT210002]).