

Human PTTG1 Knockdown Cell Lysate

Cat. No. PTTG1-409HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated PTTG1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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. Three transcript variants encoding the same protein have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	22 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and

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	equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PTTG1 KD HeLa cell lysate
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Cell cycle, Oocyte meiosis
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	PTTG1 pituitary tumor-transforming 1 [Homo sapiens (human)]
Official Symbol	PTTG1
Synonyms	PTTG1; pituitary tumor-transforming 1; TUTR1; securin; EAP1; ESP1 associated protein 1; HPTTG; PTTG; tumor transforming protein 1; ESP1-associated protein 1; tumor-transforming protein 1; pituitary tumor-transforming gene 1 protein; MGC126883; MGC138276;
Gene ID	9232
mRNA Refseq	NM_004219

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Protein Refseq	NP_004210
MIM	604147
UniProt ID	O95997

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