Human Securin(PTTG1) ELISA kit

Product Code	CSB-EL019074HU
Abbreviation	PTTG1
Protein Biological Process 1	Cell Cycle
Target Name	pituitary tumor-transforming 1
Uniprot No.	O95997
Alias	EAP1, HPTTG, MGC126883, MGC138276, PTTG, TUTR1, ESP1-associated protein 1|OTTHUMP00000160845|pituitary tumor-transforming protein 1|securin|tumor-transforming protein 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell cycle
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.2 pg/mL-2000 pg/mL
Sensitivity	7.8 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	PTTG1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human PTTG1 ELISA Kit was designed for the quantitative measurement of Human PTTG1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.2 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human PTTG1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	86-97
1:2	Average %	107
	Range %	103-112
1:4	Average %	88
	Range %	83-94
1:8	Average %	86
	Range %	81-92

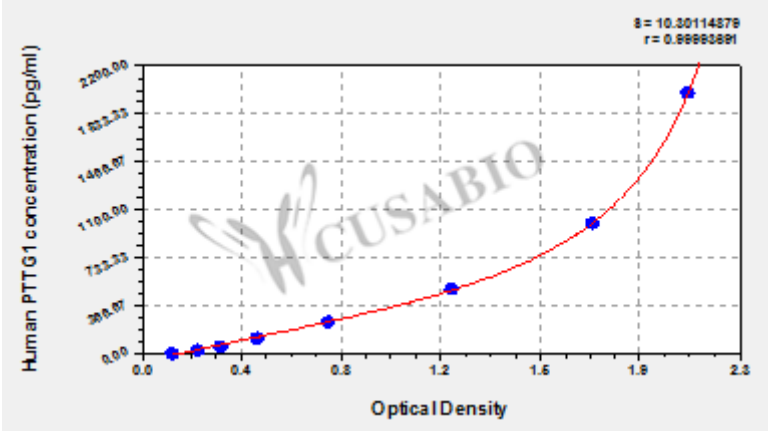
Recovery

The recovery of human PTTG1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	106	102-110
EDTA plasma (n=4)	89	86-94

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.027	2.156	2.092	1.962
1000	1.679	1.778	1.729	1.599
500	1.173	1.213	1.193	1.063
250	0.715	0.722	0.719	0.589
125	0.445	0.458	0.452	0.322
62.5	0.305	0.319	0.312	0.182
31.2	0.221	0.227	0.224	0.094
0	0.129	0.131	0.130	?

Msds

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