

Rabbit Anti-Securin/Cy5 Conjugated antibody

SL1881R-Cy5

Product Name	Anti-Securin/Cy5
Chinese Name	Cy5 标记的垂体 Tumour 转化基因抗体
Alias	AW555095; C87862; Cut2; EAP 1; EAP1; ESP1 ASSOCIATED PROTEIN 1; Esp1-associated protein; hPTTG; MGC126883; MGC138276; Pds1; Pituitary tumor transforming 1; Pituitary tumor transforming protein 1; Pituitary tumor-transforming 1, isoform CRA_a; Pituitary tumor-transforming 1, isoform CRA_b; Pituitary tumor-transforming gene 1; Pituitary tumor-transforming gene 1 protein; PTTG 1; PTTG; PTTG1; PTTG1 protein; PTTG1_HUMAN; Pttg3; Securin; TUMOR TRANSFORMING 1; Tumor transforming protein 1; TUMOR-TRANSFORMING 1; Tumor-transforming protein 1; TUTR 1; TUTR1.
Research Area	Tumour Cell biology immunology Cyclin transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Pig,Horse)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	22-28kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PTTG1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	

background:

The encoded protein is a homolog of yeast securing 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].

Function:

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.

Subcellular Location:

Cytoplasm. Nucleus.

Product Detail

Post-translational modifications:

Phosphorylated at Ser-165 by CDK1 during mitosis.

Phosphorylated in vitro by ds-DNA kinase.

Ubiquitinated through 'Lys-11' linkage of ubiquitin moieties by the anaphase promoting complex (APC) at the onset of anaphase, conducting to its degradation. 'Lys-11'-linked ubiquitination is mediated by the E2 ligase UBE2C/UBCH10.

Similarity:

Belongs to the securin family.

Database links:

[Entrez Gene: 9232](#) Human

[Entrez Gene: 30939](#) Mouse

[Entrez Gene: 64193](#) Rat

[Omim: 604147](#) Human

[SwissProt: O95997](#) Human

[SwissProt: Q6IAL9](#) Human

[SwissProt: Q3Y5K4](#) Mouse

[SwissProt: Q5SRU0](#) Mouse

[SwissProt: Q9CQJ7](#) Mouse

[SwissProt: P97613](#) Rat

[Unigene: 350966](#) Human

[Unigene: 6856](#) Mouse

[Unigene: 137183](#) Rat

[Unigene: 271](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

垂体 Tumour 转化基因 PTTG 可在多种 Tumour 组织及部分正常组织细胞内表达较高,对促进细胞增殖、转化及 Tumour 发生有重要作用。