

**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4506a****Specification**

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**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody - Product Information**

Application	IHC, IF, FC, Pep-ELISA
Primary Accession	<a href="#">O95997</a>
Other Accession	<a href="#">NP_004210.1</a>
Reactivity	Human, Mouse, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	22024

**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody - Additional Information****Gene ID** 9232**Other Names**PTTG1; pituitary tumor-transforming 1 ; HGNC:9690; EAP1; HPTTG; PTTG; SECURIN; TUTR1;  
ESP1-associated protein 1; pituitary tumor-transforming protein 1; tumor-transforming protein 1**Dilution**IHC~~1:100~500  
IF~~1:50~200  
FC~~1:10~50  
Pep-ELISA~~N/A**Format**Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.  
Aliquot and store at -20°C. Minimize freezing and thawing.**Immunogen**

Likely to cross-react to PTTG2 and PTTG3

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-Pituitary tumor-transforming 1 / Securin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody - Protein Information****Name** PTTG1

**Synonyms** EAP1, PTTG, TUTR1

**Function**

Regulatory protein, which plays a central role in chromosome stability, in the p53/TP53 pathway, and DNA repair. Probably acts by blocking the action of key proteins. During the mitosis, it blocks Separase/ESPL1 function, preventing the proteolysis of the cohesin complex and the subsequent segregation of the chromosomes. At the onset of anaphase, it is ubiquitinated, conducting to its destruction and to the liberation of ESPL1. Its function is however not limited to a blocking activity, since it is required to activate ESPL1. Negatively regulates the transcriptional activity and related apoptosis activity of TP53. The negative regulation of TP53 may explain the strong transforming capability of the protein when it is overexpressed. May also play a role in DNA repair via its interaction with Ku, possibly by connecting DNA damage-response pathways with sister chromatid separation.

**Cellular Location**

Cytoplasm. Nucleus.

**Tissue Location**

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.

**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat anti-Pituitary tumor-transforming 1 / Securin Antibody - Images**