

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

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

Application	IHC, IF, FC, Pep-ELISA
Primary Accession	O95997
Other Accession	NP_004210.1
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