

**KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1683****Specification****KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">O95997</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 22 kDa , observed , 25 kDa KDa
Gene Name	PTTG1
Aliases	PTTG1 Regulator Of Sister Chromatid Separation, Securin; Securin; HPTTG; PTTG; EAP1; Tumor-Transforming Protein ; ECRAR; TUTR1; Endogenous Cardiac Regeneration-Associated Regulator; Pituitary Tumor-Transforming Gene 1 Protein; Pituitary Tumor-Transforming 1; ESP1-Associated Protein 1; Esp1-Associated Protein
Immunogen	A synthesized peptide derived from human Securin

**KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	9232
<b>Other Names</b>	
Securin, Esp1-associated protein, Pituitary tumor-transforming gene 1 protein, Tumor-transforming protein 1, hPTTG, PTTG1, EAP1, PTTG, TUTR1	

**KD-Validated Anti-PTTG1 Rabbit Monoclonal 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

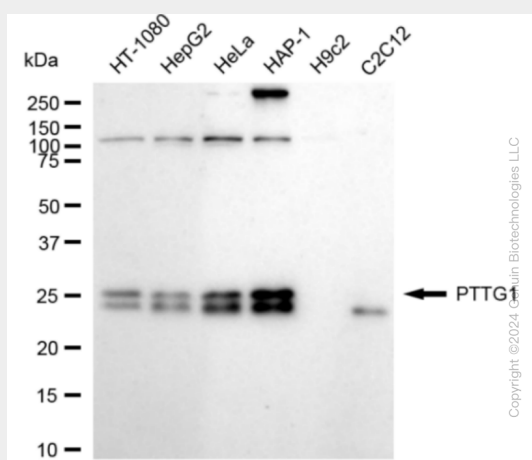
Expressed at low level in most tissues, except in adult testis, where it is highly expressed. Overexpressed in many patients suffering from pituitary adenomas, primary epithelial neoplasias, and esophageal cancer.

### KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody - Protocols

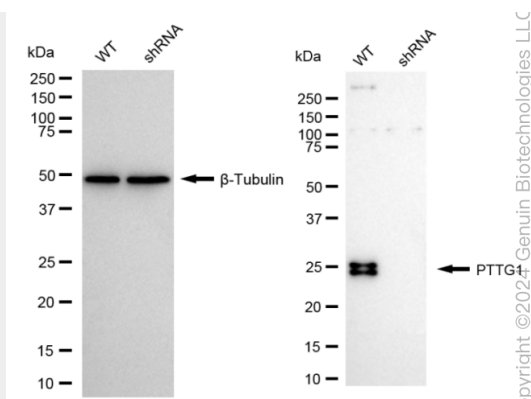
Provided below are standard protocols that you may find useful for product applications.

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

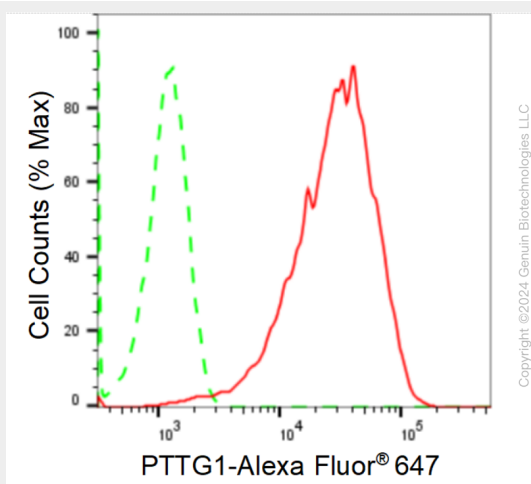
### KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PTTG1 antibody (Cat#AGI1683). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PTTG1 antibody (Cat#AGI1683, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PTTG1 antibody (Cat#AGI1683). PTTG1 expression in wild type (WT) and PTTG1 shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-PTTG1 antibody (Cat#AGI1683, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PTTG1 expression in HAP-1 cells using anti-PTTG1 antibody (Cat#AGI1683, 1:2,000). Green, isotype control; red, PTTG1.