

KD-Validated Anti-PTTG1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1683

Product Information

Application	WB, FC
Primary Accession	O95997
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1495
Calculated MW	22024
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

Additional Information

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

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.

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