



Anti-PTTG1 (aa 148-160) polyclonal antibody (DPABH-09812)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	Synthetic peptide: C-ILDEERELEKLFQ, corresponding to amino acids 148-160 of Human Securin (NP_004210.1).
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P
Format	Liquid
Size	50 µg

Buffer	pH: 7.30; Constituents: 99% Tris buffered saline, 0.5% BSA
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	PTTG1 pituitary tumor-transforming 2 [Homo sapiens]
Official Symbol	PTTG1
Synonyms	PTTG1; pituitary tumor-transforming 1; EAP1; PTTG; HPTTG; TUTR1; securin; ESP1-associated protein 1; tumor-transforming protein 1; pituitary tumor-transforming gene 1 protein;
Entrez Gene ID	9232
Protein Refseq	NP_001269311.1
UniProt ID	O95997
Pathway	APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of mitotic proteins; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins; Cell Cycle, Mitotic
Function	SH3 domain binding; cysteine-type endopeptidase inhibitor activity; protein binding; sequence-specific DNA binding transcription factor activity