Rabbit anti-Human PTTG1 Polyclonal Antibody | anti-PTTG1 antibody

PTTG1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320986	**Rabbit**	**Human**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

PTTG1; Polyclonal Antibody; PTTG1 Antibody; AW555095; C87862; Cut2; EAP 1; EAP1; ESP1 associated protein 1; Esp1-associated protein; hPTTG; MGC126883; MGC138276; Pds1; Pituitary tumor transforming 1; Pituitary tumor transforming protein 1; Pituitary tumor-transforming 1; isoform CRA_a; isoform CRA_b; Pituitary tumor-transforming gene 1; Pituitary tumor-transforming gene 1 protein; PTTG 1; PTTG; PTTG1 protein; PTTG1_HUMAN; Pttg3; Securin; Tumor transforming 1; Tumor transforming protein 1; Tumor-transforming protein 1; TUTR 1; TUTR1; anti-PTTG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	PTTG1 antibody detects endogenous levels of total PTTG1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	202
Applicable Applications for anti-PTTG1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTTG1
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	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.
Predicted Cross Reactivity	**Pig, Bovine, Sheep, Rabbit, Dog**
Similarity	Pig (88%), Bovine (89%), Sheep (89%), Rabbit (89%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IF (Immunofluorescence)
AAA320986 staining A-431 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

IF (Immunofluorescence)
AAA320986 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

WB (Western Blot)
Western blot analysis of extracts from various samples, using PTTG1 Antibody. Lane 1: 293 treated with blocking peptide. Lane 2: 293; Lane 3: hela;

WB (Western Blot)
Western blot analysis on Jurkat and K562 cell lysate using PTTG1 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PTTG1 antibody	Description: securin 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. 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. Subunit Structure: Interacts with RPS10 and DNAJA1 (By similarity). Interacts with the caspase-like ESPL1, and prevents its protease activity probably by covering its active site. Interacts with TP53 and blocks its activity probably by blocking its binding to DNA. Interacts with the Ku 70 kDa subunit of ds-DNA kinase. Interacts with PTTG1IP. Post-translational Modifications: Phosphorylated at Ser-165 by CDK1 during mitosis. Phosphorylated in vitro by ds-DNA kinase. Ubiquitinated through 'Lys-11' linkage of ubiquitin moieties by the anaphase promoting complex (APC) at the onset of anaphase, conducting to its degradation. 'Lys-11'-linked ubiquitination is mediated by the E2 ligase UBE2C/UBCH10. Similarity: The N-terminal destruction box (D-box) acts as a recognition signal for degradation via the ubiquitin-proteasome pathway.The TEK-boxes are required for 'Lys-11'-linked ubiquitination and facilitate the transfer of the first ubiquitin and ubiquitin chain nucleation. TEK-boxes may direct a catalytically competent orientation of the UBE2C/UBCH10-ubiquitin thioester with the acceptor lysine residue. Belongs to the securin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	538260592
NCBI GeneID	9232
NCBI Accession #	NP_001269311.1
NCBI GenBank Nucleotide #	NM_001282382.1
UniProt Accession #	O95997
Molecular Weight	Observed: 30 kDa Predicted: 23 kDa

NCBI Official Full Name	securin
NCBI Official Synonym Full Names	pituitary tumor-transforming 1
NCBI Official Symbol	PTTG1
NCBI Official Synonym Symbols	EAP1; PTTG; HPTTG; TUTR1
NCBI Protein Information	securin
UniProt Protein Name	Securin
UniProt Gene Name	**PTTG1**
UniProt Synonym Gene Names	EAP1; PTTG; TUTR1; Tumor-transforming protein 1; hPTTG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/pttg1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320986