

PTTG1/2/3 Polyclonal Antibody

Catalog # AP72087

Specification

PTTG1/2/3 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	O95997
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

PTTG1/2/3 Polyclonal Antibody - Additional Information

Gene ID 9232

Other Names

PTTG1; EAP1; PTTG; TUTR1; Securin;
Esp1-associated protein; Pituitary
tumor-transforming gene 1 protein;
Tumor-transforming protein 1; hPTTG

Dilution

WB~~Western Blot: 1/500 - 1/2000.
Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000.
ELISA: 1/20000. Not yet tested in other
applications.

Format

Liquid in PBS containing 50% glycerol, 0.5%
BSA and 0.02% sodium azide.

Storage Conditions

-20°C

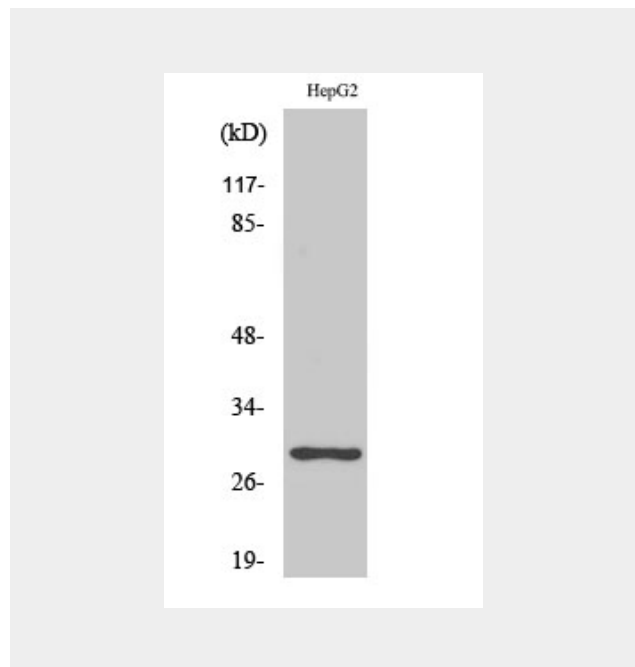
PTTG1/2/3 Polyclonal Antibody - Protein Information

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
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PTTG1/2/3 Polyclonal Antibody - Background

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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.

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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.

PTTG1/2/3 Polyclonal 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](#)