

TEP1 Rabbit pAb

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Catalog # AP57391

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99973
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	290490
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TP-1
Epitope Specificity	1701-1800/2627
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus (Probable). Telomere.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Telomerase is an RNA-dependent DNA polymerase that uses an RNA component to add telomeric repeat sequences at the ends of chromosomes. Besides the RNA component which serves as the template that specifies the telomeric repeat, the telomerase complex contains a reverse transcriptase protein (TRT) and various accessory proteins including the telomerase-associated protein 1 (TEP1). Telomerase activity is low in most somatic cells, causing the gradual shortening of telomeres which can ultimately lead to telomere fusion and cell death. High levels of telomerase activity are widely seen in cancerous cells and while recent experiments have suggested that telomerase may be a viable target in cancer therapy, expression levels of TEP1 do not correlate with malignancy. At least two isoforms of TP1 are known to exist.

Additional Information

Gene ID	7011
Other Names	Telomerase protein component 1, Telomerase-associated protein 1, Telomerase protein 1, p240, p80 telomerase homolog, TEP1, TLP1, TP1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TEP1
Synonyms	TLP1, TP1
Function	Component of the telomerase ribonucleoprotein complex that is essential for the replication of chromosome termini (PubMed: 19179534). Component of the vault particle, which is a massive ribonucleoprotein complex that may play a role in cargo transport and signal transduction (By similarity). Responsible for the localizing and stabilizing vault RNA (vRNA) association in the vault ribonucleoprotein particle. Binds to TERC (By similarity).
Cellular Location	Nucleus. Chromosome, telomere.
Tissue Location	Ubiquitous..

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.