

TERT rabbit pAb

Cat No.:ES4244

For research use only

Overview

Product Name	TERT rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300.
	ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from the C-terminal region of
	human TERT. AA range:931-980
Specificity	TERT Polyclonal Antibody detects endogenous levels
	of TERT protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Telomerase reverse transcriptase
Gene Name	TERT
Cellular localization	Nucleus, nucleolus . Nucleus, nucleoplasm. Nucleus.
	Chromosome, telomere. Cytoplasm. Nucleus, PML
	body. Shuttling between nuclear and cytoplasm
	depends on cell cycle, phosphorylation states,
	transformation and DNA damage. Diffuse
	localization in the nucleoplasm. Enriched in nucleoli
	of certain cell types. Translocated to the cytoplasm
	via nuclear pores in a CRM1/RAN-dependent
	manner involving oxidative stress-mediated
	phosphorylation at Tyr-707. Dephosphorylation at
	this site by SHP2 retains TERT in the nucleus.
	Translocated to the nucleus by phosphorylation by
	AKT.
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal



+86-27-59760950

ELKbio@ELKbiotech.com

www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

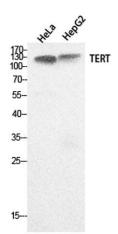


Concentration Observed band Human Gene ID Human Swiss-Prot Number Alternative Names 1 mg/ml

130kD

Background

7015 014746 TERT; EST2; TCS1; TRT; Telomerase reverse transcriptase; HEST2; Telomerase catalytic subunit; Telomerase-associated protein 2; TP2 Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the telomere repeat TTAGGG. The enzyme consists of a protein component with reverse transcriptase activity, encoded by this gene, and an RNA component which serves as a template for the telomere repeat. Telomerase expression plays a role in cellular senescence, as it is normally repressed in postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomerase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that telomerase also participates in chromosomal repair, since de novo synthesis of telomere repeats may occur at double-stranded breaks. Alternatively spliced variants encoding different isoforms of telomerase reverse transcriptase have been identified; the full-length sequence of some variants has not been determined. Alternative sp



Western Blot analysis of HeLa, HepG2 cells using TERT Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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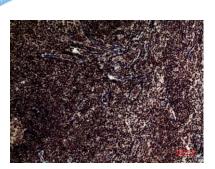
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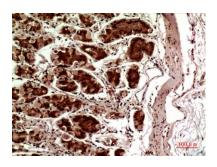
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Immunohistochemical analysis of paraffin-embedded human-tonsilla, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-stomach, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-stomach, antibody was diluted at 1:100



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