

TERT (Phospho-Ser227) Antibody

Catalog No: #13485



Package Size: #13485-1 50ul #13485-2 100ul

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Description

Product Name	TERT (Phospho-Ser227) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	IF;ELISA
Species Reactivity	Human
Specificity	Phospho-TERT (S227) Polyclonal Antibody detects endogenous levels of TERT protein only when phosphorylated at S227.
Immunogen Description	The antiserum was produced against synthesized peptide derived from human Telomerase around the phosphorylation site of Ser227. AA range:196-245
Conjugates	Unconjugated
Other Names	TERT; EST2; TCS1; TRT; Telomerase reverse transcriptase; HEST2; Telomerase catalytic subunit; Telomerase-associated protein 2; TP2
Accession No.	Swiss Prot:O14746GeneID:7015
Calculated MW	127 kDa
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

Application Details

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

Background

telomerase reverse transcriptase(TERT) Homo sapiens 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

Published Papers

el at., Fructose-1,6-bisphosphatase 1 dephosphorylates and inhibits TERT for tumor suppression. In Nat Chem Biol on 2024 Nov

by Min Li, Zheng Wang, et al..PMID:38538923, (2024)

[PMID:38538923](https://pubmed.ncbi.nlm.nih.gov/38538923/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.