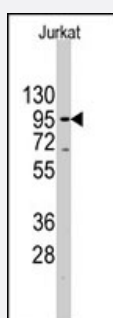


TERT polyclonal antibody

Catalog # PAB2490

Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of TERT polyclonal antibody (Cat # PAB2490) in Jurkat cell line lysates (35 ug/lane). TERT (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TERT.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human TERT.
Sequence	A synthetic peptide (conjugated with KLH) corresponding to amino acids 634-664 of human TERT.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of TERT polyclonal antibody (Cat # PAB2490) in Jurkat cell line lysates (35 ug/lane). TERT (arrow) was detected using the purified polyclonal antibody.

Gene Info — TERT

Entrez GeneID [7015](#)

Protein Accession# [NP_937983;O14746](#)

Gene Name TERT

Gene Alias EST2, TCS1, TP2, TRT, hEST2

Gene Description telomerase reverse transcriptase

Omim ID [187270 609135](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 splicing at this locus is thought to be one mechanism of regulation of telomerase activity. [provided by RefSeq]

Other Designations telomerase catalytic subunit

Publication Reference

- [The functional interplay between EGFR overexpression, hTERT activation, and p53 mutation in esophageal epithelial cells with activation of stromal fibroblasts induces tumor development, invasion, and differentiation.](#)

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Genes & Development 2007 Nov; 21(21):2788.

- [Binding of human papillomavirus type 16 E6 to E6AP is not required for activation of hTERT.](#)

Sekaric P, Cherry JJ, Androphy EJ.

Journal of Virology 2008 Jan; 82(1):71.

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- [Brain Neoplasms](#)
- [Breast cancer](#)
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