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Product datasheet for AP31849PU-N

Telomerase reverse transcriptase (TERT) (597-611) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**Peptide ELISA:** 1/32000 (Detection Limit). **Western blot:** 0.3-1 µg/ml. Approx 140kDa band observed in Human Heart and Skeletal Muscle lysates (calculated MW of 127kDa according to NP_937983.2).
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_937983.2; NP_001180305.1.
Specificity:	This antibody recognizes TERT (597-611). It is expected to recognize both reported isoforms (NP_937983.2, (NP_001180305.1).
Formulation:	Tris buffered saline, pH~7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	telomerase reverse transcriptase
Database Link:	Entrez Gene 7015 Human O14746

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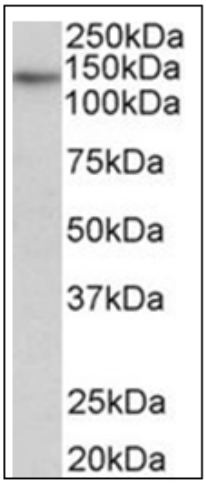
Background: Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the telomere repeat TTAGGG. The enzyme consists of a protein component with reverse transcriptase activity, and an RNA component which serves as a template for the telomere repeat. Telomerase expression 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.

Synonyms: Telomerase reverse transcriptase, HEST2, EST2, TCS1, TRT

Protein Families: Druggable Genome

Product images:



Staining of Skeletal Muscle lysate (35ug protein in RIPA buffer) using TERT Antibody at 0.5 ug/ml. Primary incubation was 1 hour. Detected by chemiluminescence.

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