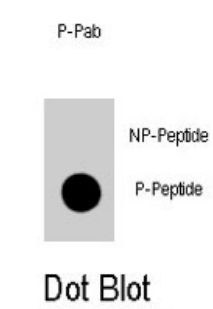
# TERT (phospho S1125) polyclonal antibody

Catalog # PAB4934 Size 400 uL

## Applications




### Dot Blot (Peptide)

Dot blot analysis of TERT (phospho S1125) polyclonal antibody (Cat # PAB4934) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic phosphopeptide of TERT. |
| **Immunogen** | Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S1125 of human TERT. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A purification |
| **Recommend Usage** | ELISA (1:1000)<br>Dot Blot (1:500)<br>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.<br>Aliquot to avoid repeated freezing and thawing. |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

  Dot blot analysis of TERT (phospho S1125) polyclonal antibody (Cat # PAB4934) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

## 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 tel omere 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 telomer e repeat. Telomerase expression plays a role in cellular senescence, as it is normally repressed i n postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomer ase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that t elomerase 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 regu lation of telomerase activity. [provided by RefSeq |
| **Other Designations** | telomerase catalytic subunit |

## Publication Reference

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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.

  Okawa T, Michaylira CZ, Kalabis J, Stairs DB, Nakagawa H, Andl CD, Johnstone CN, Klein-Szanto AJ, El-Deiry WS, Cukierman E, Herlyn M, Rustgi AK.

  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.

## Disease

- Adenocarcinoma
- Anemia
- Asthma
- Bone Marrow Diseases
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Dyskeratosis Congenita
- Eczema
- Edema
- Endometrial Neoplasms
- Esophageal Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Genetic Predisposition to Disease
- Genomic Instability
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Hepatitis
- Hypersensitivity
- Leukemia
- Lung Neoplasms
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Myocardial Infarction
- Neoplasm Metastasis
- Neoplasms
- Ovarian Neoplasms
- Pancreatic Neoplasms
- Papillomavirus Infections
- Pulmonary Disease
- Pulmonary Fibrosis
- Rhinitis
- Skin Neoplasms
- Syndrome
- Testicular Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Uterine Cervical Neoplasms
- Virus Diseases
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.