

Product Name: TERT Mouse Monoclonal Antibody**Catalog #: AMM81494**

For research use only.

Summary

| | |
|----------------------|---|
| Description | Mouse monoclonal Antibody |
| Host | Mouse |
| Application | IHC,ELISA,FC |
| Reactivity | Human |
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | Mouse IgG1 |
| Clonality | Monoclonal |
| Form | Liquid |
| Concentration | 1mg/ml |
| Storage | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| Shipping | Ice bags |
| Buffer | Purified antibody in PBS with 0.05% sodium azide |
| Purification | Affinity Purification |

Application

| | |
|-------------------------|--|
| Dilution Ratio | IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| Molecular Weight | 127kDa |

Antigen Information

| | |
|--------------------------|---|
| Gene Name | TERT |
| Alternative Names | TP2; TRT; CMM9; EST2; TCS1; hTRT; DKCA2; DKCB4; hEST2; PFBMFT1 |
| Gene ID | 7015.0 |
| SwissProt ID | O14746 |
| Immunogen | Purified recombinant fragment of human TERT (AA: 1029-1132) expressed in E. Coli. |

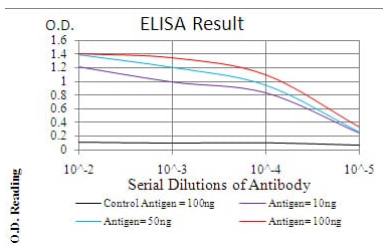
Background

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, 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

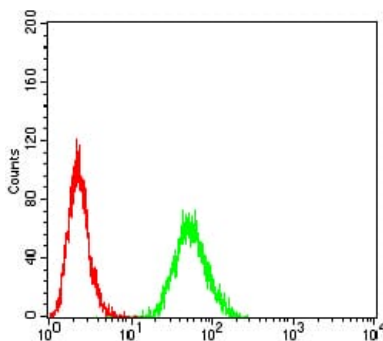
repressed in postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomerase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that telomerase also participates in chromosomal repair, since de novo synthesis of telomere repeats may 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.

Research Area

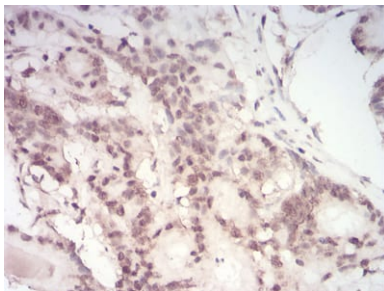
Image Data



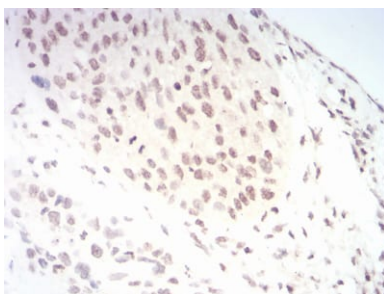
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Flow cytometric analysis of Hela cells using TERT mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using TERT mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using TERT mouse mAb with DAB staining.

