

# TERT Antibody

Catalog No: #AB31222



Package Size: #AB31222-1 50ul #AB31222-2 100ul

Orders: [order@abscitech.com](mailto:order@abscitech.com)

Support: [tech@abscitech.com](mailto:tech@abscitech.com)

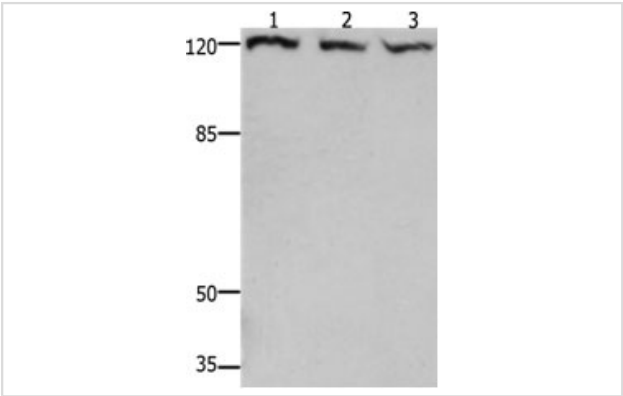
## Description

Product Name	TERT Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	E WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total TERT protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from 1120-1132 amino acids of human telomerase reverse transcriptase
Target Name	TERT
Other Names	telomerase reverse transcriptase, TP2, TRT, EST2, TCS1, hTERT, DKCA2, DKCB4, hEST2, PFBMFT1
Accession No.	Genbank No.: NP_937983
Concentration	1.2mg/ml
Formulation	Supplied at 1.2mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.3, 0.05% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

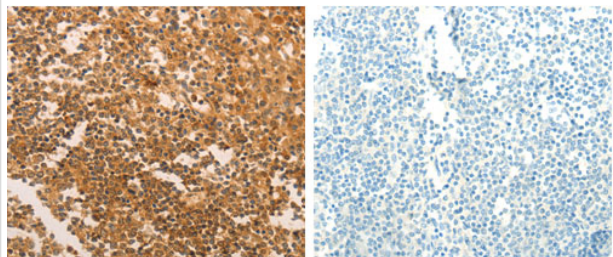
## Application Details

Predicted MW: 120kd
ELISA: 1:1000-1:5000
Western blotting: 1:500-1:2000
Immunohistochemistry: 1:50-1:200

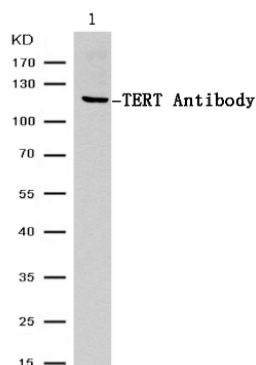
## Images



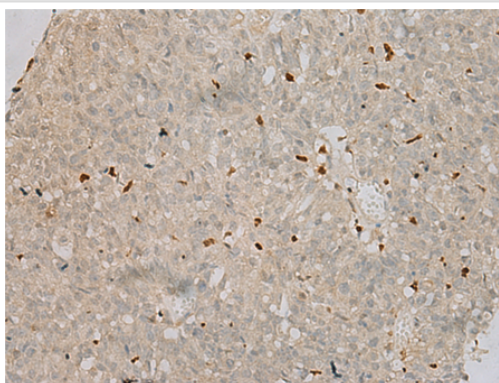
Gel: 8%SDS-PAGE  
Lane1:Human mucinous soft sarcoma tissue lysate  
Lane2:Human gliomas tissue lysate  
Lane3: HT-29 cell lysate  
Lysates: 40 ug per lane  
Primary antibody: 1/600 dilution  
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution  
Exposure time: 40 seconds



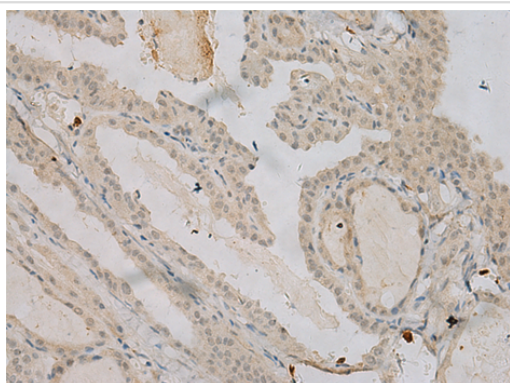
The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using AB31222 (TERT Antibody) at dilution 1/30, on the right is treated with the synthetic peptide.



All lanes : TERT Antibody (AB31222) at 1/500 dilution  
Lane 1 : Human mucinous soft sarcoma tissue lysate  
Lysates/proteins at 40 µg per lane.  
Predicted band size : 120 kDa  
Observed band size : 120 kDa



AB31222 at 1/100 staining Human Ovarian cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in formaldehyde buffer was performed. The tissue was then blocked and incubated with the antibody for one night at 4°C. A Goat Anti-Rabbit IgG H&L (HRP) at 1/200 was used as secondary.



AB31222 at 1/100 staining Human Thyroid cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in formaldehyde buffer was performed. The tissue was then blocked and incubated with the antibody for one night at 4°C. A Goat Anti-Rabbit IgG H&L (HRP) at 1/200 was used as secondary.

## 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.

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