Telomerase reverse transcriptase Polyclonal Antibody

Catalog No: #42529

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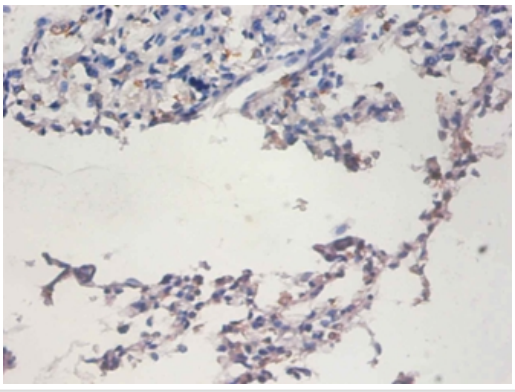
Description

Product Name	Telomerase reverse transcriptase Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Telomerase reverse transcriptase polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Telomerase reverse transcriptase protein
Target Name	Telomerase reverse transcriptase
Other Names	HEST2, Telomerase catalytic subunit, Telomerase-associated protein 2, TERT, EST2, TCS1, TRT
Accession No.	Swiss-Prot#: O14746
Uniprot	O14746
GeneID	7015;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embeded human lungs using #42529 at dilution of 1:100.

Background

Telomerase is a ribonucleoprotein enzyme essential for the replication of chromosome termini in most eukaryotes. Active in progenitor and cancer cells. Inactive, or very low activity, in normal somatic cells. Catalytic component of the teleromerase holoenzyme complex whose main activity is the elongation of telomeres by acting as a reverse transcriptase that adds simple sequence repeats to chromosome ends by copying a template sequence within the RNA component of the enzyme. Catalyzes the RNA-dependent extension of 3'-chromosomal termini with the 6-nucleotide telomeric repeat unit, 5'-TTAGGG-3'. The catalytic cycle involves primer binding, primer extension and release of product once the template boundary has been

reached or nascent product translocation followed by further extension. More active on substrates containing 2 or 3 telomeric repeats. Telomerase activity is regulated by a number of factors including telomerase complex-associated proteins, chaperones and polypeptide modifiers. Modulates Wnt signaling. Plays important roles in aging and antiapoptosis.

References

[1] "hEST2, the putative human telomerase catalytic subunit gene, is up-regulated in tumor cells and during immortalization."Meyerson M., Counter C.M., Eaton E.N., Ellisen L.W., Steiner P., Caddle S.D., Ziaugra L., Beijersbergen R.L., Davidoff M

Note: This product is for in vitro research use only