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Phospho-TERT(Y707) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3619a

Product Information

Application	IF, DB, E
Primary Accession	O14746
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16840

Additional Information

Other Names	Telomerase reverse transcriptase, HEST2, Telomerase catalytic subunit, Telomerase-associated protein 2, TP2, TERT, EST2, TCS1, TRT
Target/Specificity	This TERT Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y707 of human TERT.
Dilution	IF~~1:10~50 DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-TERT(Y707) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

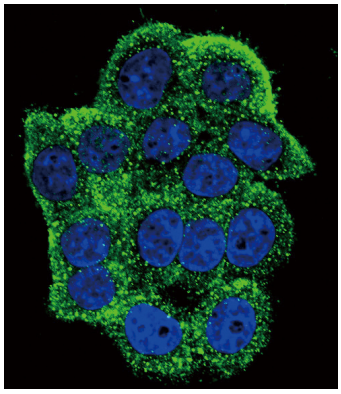
Background

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.

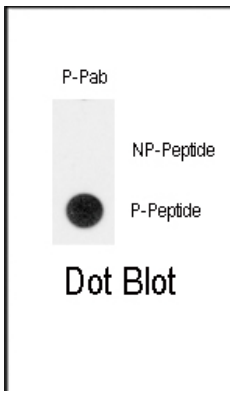
References

Jakob S, et al. (2008) J Biol Chem 283, 33155-61
Haendeler J, et al. (2003) Mol Cell Biol 23, 4598-610

Images



Confocal immunofluorescent analysis of Phospho-TERT-pY707 Antibody(Cat#AP3619a) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



Dot blot analysis of anti-Phospho-TERT-pY707 Antibody (Cat.#AP3619a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Citations

- Microenvironmental regulation of telomerase isoforms in human embryonic stem cells.