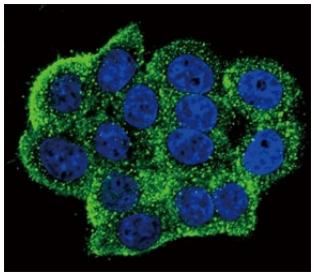
Phospho-TERT Antibody (pY707) (F48597)

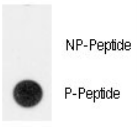
Catalog No.	Formulation	Size
F48597-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48597-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O14746
Applications	Immunofluorescence : 1:10-1:50 Dot Blot : 1:500
Limitations	This phospho-TERT antibody is available for research use only.



Confocal immunofluorescent analysis of phospho-TERT antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).



Dot blot analysis of phospho-TERT antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

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.

Application Notes

Titration of the phospho-TERT antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-TERT antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pY707 of human TERT.

Storage

Aliquot the phospho-TERT antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.