

TERT Antibody (S1125)

ALTERNATE NAMES: TERT; EST2; TCS1; TRT; Telomerase reverse transcriptase; HEST2; Telomerase catalytic subunit; Telomerase-associated protein 2

CATALOG #: 6793-100

AMOUNT: 100 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: This TERT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1104-1132 amino acids from human TERT.

MOLECULAR WEIGHT: ~126.997 kDa

FORM: Liquid

FORMULATION: in PBS with 0.09% (W/V) sodium azide.

PURIFICATION: This antibody is purified through a protein A column, followed by peptide affinity purification.

SPECIES REACTIVITY: Human.

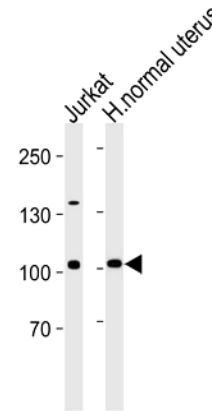
STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Telomerase is an RNA-dependent DNA polymerase that catalyzes the addition of telomeric repeat sequences to chromosome ends. In most human somatic cells, telomerase activity is undetectable, and telomeres shorten with successive cell divisions. However, telomerase activity is detectable in immortal cells and in many human tumors. Two candidate mammalian telomerase proteins have been cloned. Human TP1 (for telomerase-associated protein 1), also designated TLP1 in rat (for telomerase protein component 1), is homologous to the Tetrahymena p80 telomerase protein and has been shown to interact with mammalian telomerase RNA. Human TERT (for telomerase reverse transcriptase), also designated hEST2 (for ever shorter telomeres), is homologous to the p123 telomerase protein from Euplotes and to the yeast Est2 protein. Expression of TERT mRNA has been shown to correlate with telomerase activity in various cell lines.

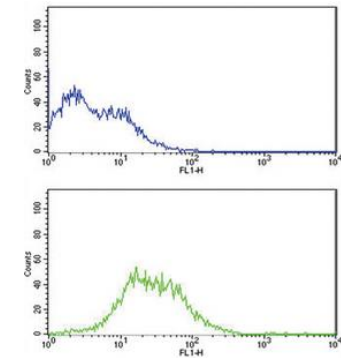
APPLICATION: WB: 1:1000, IHC: 1:10 – 1:50, IF: 1:10 – 1:50, FACS: 1:10 – 1:50.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

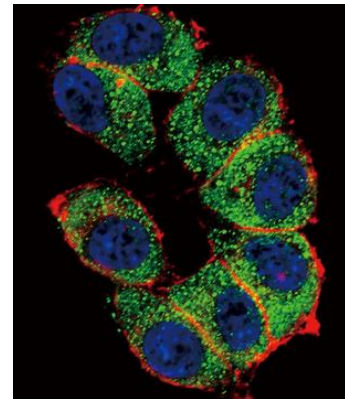
FOR RESEARCH USE ONLY! Not to be used on humans.



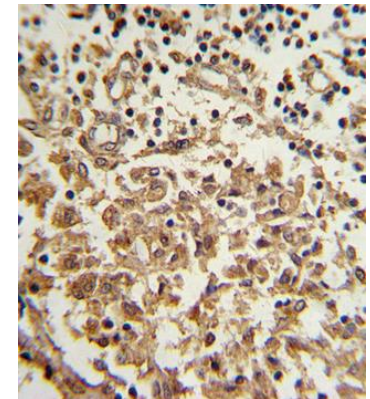
TERT Antibody western blot analysis in Jurkat cell line and human normal uterus tissue lysates (35 µg/lane). This demonstrates the TERT antibody detected the TERT protein (arrow).



TERT Antibody FACS analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies was used for the analysis.



Confocal IF analysis of TERT Antibody with HeLa cell 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 to stain the cell nuclear (blue).



Formalin-fixed and paraffin-embedded human lymph with TERT Antibody which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry.

RELATED PRODUCTS:

- Antibodies and Supporting Tools