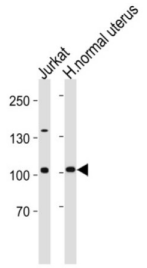
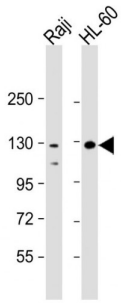
Telomerase Reverse Transcriptase (TERT) Antibody

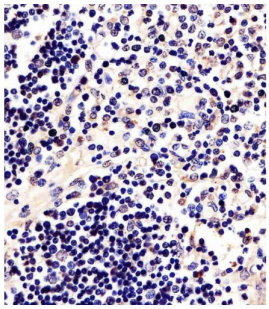
Catalogue No.:abx027803



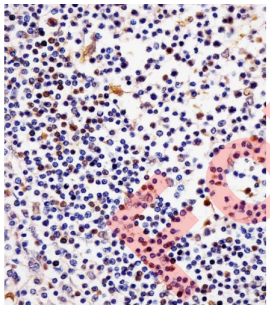
WB analysis of (1) Jurkat cell line lysates, and (2) human normal uterus tissue lysates.



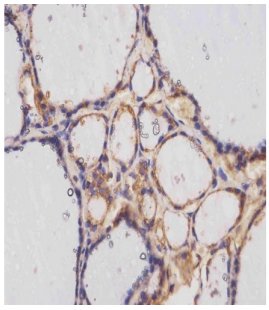
WB analysis of (1) Raji, and (2) HL-60 whole cell lysates, using TERT Antibody (1/2000 dilution) and HRP-conjugated Goat anti-Rabbit IgG (H+L). Blocking/Dilution buffer: 5% NFDM/TBST. Predicted band size: 127 kDa.



IHC-P analysis of human thymus tissue, using TERT antibody (1/25 dilution, 1 h at 37 °C). The tissue was fixed with formaldehyde and blocked with 3% BSA for 30 min at room temperature. Heat-mediated antigen retrieval was carried out with citrate buffer, pH 6. Biotin-conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC-P analysis of human tonsil tissue, using TERT antibody (1/25 dilution, 1 h at 37 °C). The tissue was fixed with formaldehyde and blocked with 3% BSA for 30 min at room temperature. Heat-mediated antigen retrieval was carried out with citrate buffer, pH 6. Biotin-conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC-P analysis of human thyroid tissue, using TERT antibody (1/25 dilution, 1 h at 37 °C). The tissue was fixed with formaldehyde and blocked with 3% BSA for 30 min at room temperature. Heat-mediated antigen retrieval was carried out with citrate buffer, pH 6. Biotin-conjugated goat anti-rabbit antibody was used as the secondary antibody.

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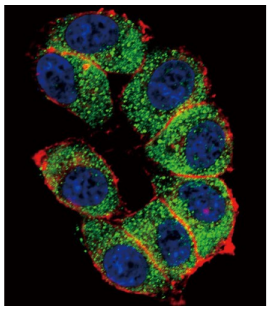
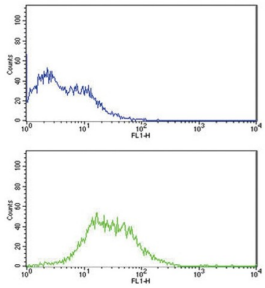
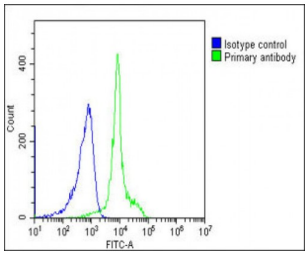


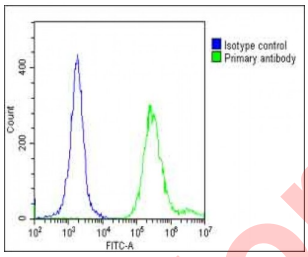
Confocal immunofluorescent analysis of HeLa cells, using TERT antibody and AF488-conjugated goat anti-rabbit IgG (green). Actin filaments were labelled with AF555-conjugated phalloidin (red). DAPI was used to stain the cell nucleus (blue).



Flow cytometric analysis of Jurkat cells (bottom) compared to negative control cells (top), using TERT antibody and FITC-conjugated goat anti-rabbit secondary antibody.



Flow cytometric analysis of HL-60 cells (green). Cells were fixed with 2% paraformaldehyde for 10 min and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% BSA, followed by TERT antibody (1/25 dilution, 1 h at 37 °C). DL488-conjugated goat anti-rabbit IgG (1/200 dilution, 40 min at 37 °C) was used as the secondary antibody. The isotype control (blue) was rabbit IgG (1 µg/10^6 cells). Acquisition of > 10,000 events was performed.



Flow cytometric analysis of HeLa cells (green). Cells were fixed with 2% paraformaldehyde for 10 min and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% BSA, followed by TERT antibody (1/25 dilution, 1 h at 37 °C). DL488-conjugated goat anti-rabbit IgG (1/200 dilution, 40 min at 37 °C) was used as the secondary antibody. The isotype control (blue) was rabbit IgG (1 µg/10^6 cells). Acquisition of > 10,000 events was performed.

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.

Target:	Telomerase Reverse Transcriptase (TERT)
Clonality:	Polyclonal

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Reactivity:	Human
Tested Applications:	ELISA, WB, IHC, IF/ICC, FCM
Host:	Rabbit
Recommended dilutions:	WB: 1/2000, IHC-P: 1/25, IF/ICC: 1/10 - 1/50, FCM: 1/25. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 1104-1132 amino acids from human TERT.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein A column, followed by peptide affinity purification.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	O14746 (UniProt, ExPASy)
Gene Symbol:	TERT
GeneID:	7015
OMIM:	178500
NCBI Accession:	NP_001180305.1, NM_001193376.1
HGNC:	11730
KEGG:	hsa:7015
Ensembl:	ENSG00000164362
String:	9606.ENSP00000309572
Molecular Weight:	Calculated MW: 127 kDa
Buffer:	PBS containing 0.09% sodium azide.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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