

bs-0233R**[Primary Antibody]****Bioss**
ANTIBODIES

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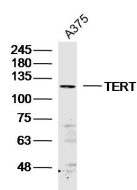
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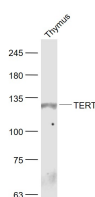
400-901-9800

TERT Rabbit pAb**— DATASHEET —**

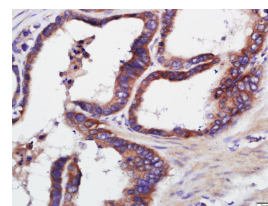
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test) ICC/IF (1:100)
Clonality: Polyclonal		
GeneID: 7015	SWISS: O14746	
Target: TERT		
Immunogen: KLH conjugated synthetic peptide derived from human TERT: 601-750/1132.		
Purification: affinity purified by Protein A		Reactivity: Human, Mouse, Rat
Concentration: 1mg/ml		Predicted MW.: 125 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Cytoplasm ,Nucleus
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, 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. Alternatively spliced variants encoding different isoforms of telomerase reverse transcriptase have been identified; the full-length sequence of some variants has not been determined. Alternative splicing at this locus is thought to be one mechanism of regulation of telomerase activity. [provided by RefSeq, Jul 2008].		

— VALIDATION IMAGES —

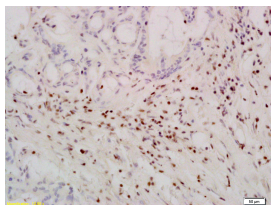
Sample: A375 (human) cell Lysate at 40 µg
 Primary: Anti-TERT (bs-0233R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 125 kD
 Observed band size: 125 kD



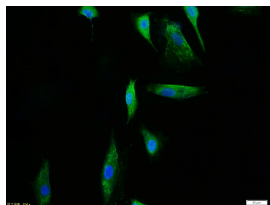
Sample: Thymus (Mouse) Lysate at 40 µg
 Primary: Anti-TERT (bs-0233R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 125 kD
 Observed band size: 125 kD



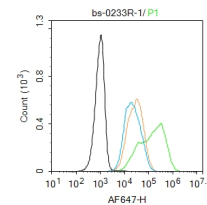
Tissue/cell: human stomach carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-TERT Polyclonal Antibody, Unconjugated (bs-0233R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



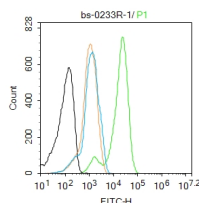
Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-TERT Polyclonal Antibody, Unconjugated (bs-0233R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (TERT) polyclonal Antibody, Unconjugated (bs-0233R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-TERT antibody (bs-0233R) Dilution: 1μg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1μg / test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: K562. Primary Antibody (green line): Rabbit Anti-TERT antibody (bs-0233R) Dilution: 1μg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 1μg / test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=7.577]** Li X et al. BDE-209 and DBDPE induce male reproductive toxicity through telomere-related cell senescence and apoptosis in SD rat. *Environ Int.* 2021 Jan;146:106307. WB ; Rat. 33395949
- **[IF=8.008]** Ze-Rui Zhou. et al. DNAzyme-Powered DNA Walker for Cooperative Expression Imaging of Mutant p53 and Telomerase in Cancer Cells. *ANAL CHEM.* 2023;95(8):4122–4130 IF ; Human. 36800274
- **[IF=6.831]** Xiaoyu Qi. et al. Curcumin inhibits ferritinophagy to restrain hepatocyte senescence through YAP/NCOA4 in non-alcoholic fatty liver disease. 2021 Aug 03 WB ; Hamster. 34346124
- **[IF=5.572]** Yue Zhang. et al. Dietary selenium excess affected spermatogenesis via DNA damage and telomere-related cell senescence and apoptosis in mice. *FOOD CHEM TOXICOL.* 2023 Jan;171:113556 WB ; Mouse. 36502996
- **[IF=5.988]** Qi Xiaoyu. et al. Curcumin Suppresses CCF-Mediated Hepatocyte Senescence Through Blocking LC3B–Lamin B1 Interaction in Alcoholic Fatty Liver Disease. *FRONT PHARMACOL.* 2022 Jun;0:2140 WB ; Human, Mouse. 35837283