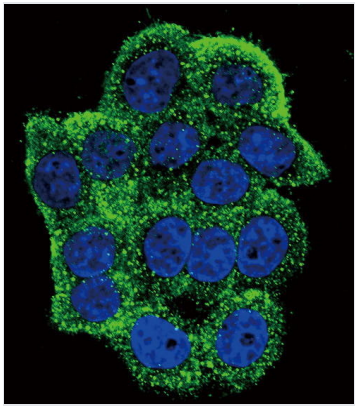
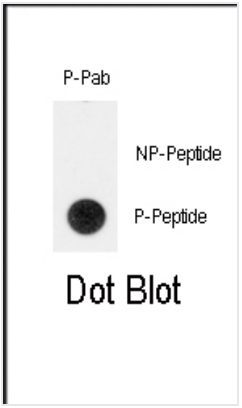
TERT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TERT, Polyclonal Antibody
Full Product Name	TERT, Phosphorylated (Tyr707) (Telomerase Reverse Transcriptase, Telomerase Catalytic Subunit, HEST2, Telomerase-associated Protein 2, TP2, EST2, TCS1, TRT) (Azide free) (HRP)
Product Gene Name	anti-TERT antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TERT phosphorylated at Tyr707.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	88,965 Da
OMIM	178500
3D Structure	ModBase 3D Structure for O14746
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Tyr707 of human TERT (KLH).
Conjugate	HRP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-TERT antibody	Antibodies; Telomere/Telomerase
Applications Tested/Suitable for anti-TERT antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-TERT antibody	ELISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-TERT antibody	MBS6502320 is an antibody targeting TERT. Also known as TERT, Phosphorylated (Tyr707) (Telomerase Reverse Transcriptase, Telomerase Catalytic Subunit, HEST2, Telomerase-associated Protein 2, TP2, EST2, TCS1, TRT) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TERT antibody	1. Jakob S, et al. (2008). J Biol Chem 283, 33155-61. 2. Haendeler J, et al. (2003). Mol Cell Biol 23, 4598-610.
Other Notes	Small volumes of anti-TERT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence (IF) of anti-TERT antibody
Confocal immunofluorescent analysis of Phospho-TERT-pY707 Antibody 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 (DB) of anti-TERT antibody
Dot blot analysis of anti-Phospho-TERT-pY707 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TERT. It may not necessarily be applicable to this product.

NCBI GI #	109633031
NCBI GeneID	7015
NCBI Accession #	NP_937983
UniProt Primary Accession #	O14746
UniProt Secondary Accession #	O14783; Q2XS35; Q8N6C3; Q8NG38; Q8NG46
UniProt Related Accession #	O14746
GenBank Nucleotide #	NM_198253
NCBI Official Full Name	telomerase reverse transcriptase isoform 1
NCBI Official Synonym Full Names	telomerase reverse transcriptase
NCBI Official Symbol	TERT
NCBI Official Synonym Symbols	TP2; TRT; CMM9; EST2; TCS1; hTRT; DKCA2; DKCB4; hEST2; PFBMFT1
UniProt Protein Name	Telomerase reverse transcriptase
UniProt Synonym Protein Names	HEST2; Telomerase catalytic subunit; Telomerase-associated protein 2
Protein Family	Telomerase reverse transcriptase
UniProt Gene Name	TERT
UniProt Synonym Gene Names	EST2; TCS1; TRT; TP2
UniProt Entry Name	TERT_HUMAN
NCBI Protein Information	telomerase reverse transcriptase; telomerase catalytic subunit; telomerase-associated protein 2

UniProt Comments for TERT	TERT: telomerase reverse transcriptase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the telomere repeat TTAGGG. The holoenzyme consists of TERT 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 isoforms have been identified, although the full-length sequence of some variants has not been determined. Protein type: Transferase; EC 2.7.7.49; DNA-binding; Nucleolus Chromosomal Location of Human Ortholog: 5p15.33 Cellular Component: nucleoplasm; chromosome, telomeric region; PML body; nuclear telomere cap complex; telomerase holoenzyme complex; nucleolus Molecular Function: telomerase activity; protein binding; RNA-directed RNA polymerase activity; protein homodimerization activity; DNA binding; metal ion binding; telomeric DNA binding; RNA-directed DNA polymerase activity; telomeric template RNA reverse transcriptase activity; nucleotidyltransferase activity; tRNA binding Biological Process: mitochondrion organization and biogenesis; DNA strand elongation; RNA-dependent DNA replication; positive regulation of nitric-oxide synthase activity; telomere maintenance via telomerase; age-dependent telomere shortening; telomere maintenance; positive regulation of Wnt receptor signaling pathway; RNA interference, production of siRNA Disease: Pulmonary Fibrosis, Idiopathic; Aplastic Anemia; Dyskeratosis Congenita, Autosomal Dominant, 1
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