Telomerase Reverse Transcriptase (TERT) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Telomerase Reverse Transcriptase (TERT), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Telomerase Reverse Transcriptase (TERT)
Product Gene Name	anti-TERT antibody
Product Synonym Names	EST2; TCS1; TP2; TRT; hEST2; Telomerase catalytic subunit; Telomerase-associated protein 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: TERT (MBS2001659) PE Conjugated Antibody: TERT (MBS2064203)
Matching Pairs	PE Conjugated Antibody: TERT (MBS2064203) Immunogen: TERT (MBS2012286)
Molecular Weight	88,965 Da
OMIM	AF018167 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	TERT (Gln642~Lys974)
Conjugation	PE
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2001659
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-TERT antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-TERT antibody	MBS2064203 is an antibody targeting TERT. Also known as PE-Linked Polyclonal Antibody to Telomerase Reverse Transcriptase (TERT). Reactive in Mouse, Rat. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	22759946
NCBI GeneID	7015
NCBI Accession #	BAC11010.1
UniProt Secondary Accession #	O14783; Q2XS35; Q8N6C3; Q8NG38; Q8NG46

UniProt Related Accession #	O14746
NCBI Official Full Name	telomerase reverse transcriptase
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; TP2
Protein Family	Telomerase reverse transcriptase
UniProt Gene Name	TERT
UniProt Synonym Gene Names	EST2; TCS1; TRT; TP2
NCBI Protein Information	telomerase reverse transcriptase
NCBI Summary for TERT	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]
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: DNA-binding; EC 2.7.7.49; Nucleolus; Transferase Chromosomal Location of Human Ortholog: 5p15.33 Cellular Component: chromosome, telomeric region; nuclear chromosome, telomeric region; nuclear telomere cap complex; nucleolus; nucleoplasm; nucleus; PML body; telomerase holoenzyme complex Molecular Function: DNA binding; nucleotidyltransferase activity; protein binding; protein homodimerization activity; RNA binding; RNA-directed DNA polymerase activity; RNA-directed RNA polymerase activity; telomerase activity; telomeric DNA binding; telomeric template RNA reverse transcriptase activity; tRNA binding Biological Process: DNA strand elongation; mitochondrion organization and biogenesis; positive regulation of nitric-oxide synthase activity; positive regulation of protein binding; positive regulation of Wnt receptor signaling pathway; regulation of protein stability; RNA biosynthetic process; RNA interference, production of siRNA; RNA-dependent DNA replication; telomere maintenance; telomere maintenance via telomerase Disease: Aplastic Anemia; Dyskeratosis Congenita, Autosomal Dominant, 1; Pulmonary Fibrosis, Idiopathic
Research Articles on TERT	**1.** The results showed that a repressor complex composed of NFX1-91, mSin3A and histone deacetylase 1 was involved in the PKC-delta-induced repression of the hTERT promoter, which resulted in the repression of hTERT transcription.

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