TERT Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TERT, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to TERT
Product Gene Name	anti-TERT antibody
Product Synonym Names	TP2; TRT; CMM9; EST2; TCS1; hTRT; DKCA2; DKCB4; hEST2; PFBMFT1
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3H2G9
Host	Mouse
Molecular Weight	127kDa
OMIM	178500
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TERT antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-TERT antibody	Western blot using Recombinant protein Western blot using Transfection expressed protein
Related Product Information for anti-TERT antibody	MBS8528281 is an antibody targeting TERT. Also known as Mouse Monoclonal Antibody to TERT. Host: Mouse.
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 #	1178013622
NCBI GeneID	7015
NCBI Accession #	ORD96461.1
UniProt Secondary Accession #	O14783; Q2XS35; Q8N6C3; Q8NG38; Q8NG46
UniProt Related Accession #	O14746
NCBI Official Full Name	TERT
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	Telomerase is a ribonucleoprotein enzyme essential for the replication of chromosome termini in most eukaryotes. Active in progenitor and cancer cells. Inactive, or very low activity, in normal somatic cells. Catalytic component of the teleromerase holoenzyme complex whose main activity is the elongation of telomeres by acting as a reverse transcriptase that adds simple sequence repeats to chromosome ends by copying a template sequence within the RNA component of the enzyme. Catalyzes the RNA-dependent extension of 3'-chromosomal termini with the 6-nucleotide telomeric repeat unit, 5'-TTAGGG-3'. The catalytic cycle involves primer binding, primer extension and release of product once the template boundary has been reached or nascent product translocation followed by further extension. More active on substrates containing 2 or 3 telomeric repeats. Telomerase activity is regulated by a number of factors including telomerase complex-associated proteins, chaperones and polypeptide modifiers. Modulates Wnt signaling. Plays important roles in aging and antiapoptosis.
Research Articles on TERT	**1.** Mutations in the promoter of TERTp are common in patients with glioblastomas (GBMs) and oligodendrogliomas (ODGs). Mutations in IDH1 and MGMTp methylation and age under 55 were associated with favorable prognosis in diffuse gliomas and in cases with grade III AA (combined IDH-mutant and IDH-WT AA), TERTp mutant carriers had worse overall survival than TERTp WT carriers.
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