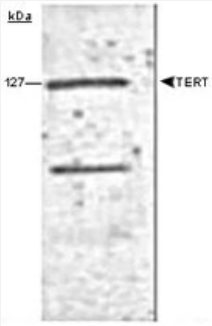
TERT monoclonal antibody, clone 2D8

Catalog # MAB2379 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of human TERT using TERT monoclonal antibody, clone 2D8 (Cat # MAB2379). Sample : MJ90 whole cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant TERT.
Immunogen	Recombinant protein corresponding to full length human TERT.
Host	Mouse
Reactivity	Human
Specificity	This antibody is specific to hTERT.
Form	Liquid
Isotype	IgM
Recommend Usage	Flow Cytometry (1:50-1:200) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In buffer containing 0.09% sodium azide

Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of human TERT using TERT monoclonal antibody, clone 2D8 (Cat # MAB2379). Sample : MJ90 whole cell lysate.

- Immunocytochemistry
- Immunofluorescence
- Flow Cytometry

Gene Info — TERT

Entrez GeneID	7015
Gene Name	TERT
Gene Alias	EST2, TCS1, TP2, TRT, hEST2
Gene Description	telomerase reverse transcriptase
Omim ID	187270 609135
Gene Ontology	Hyperlink
Gene Summary	Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the tel omere 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 telomer e repeat. Telomerase expression plays a role in cellular senescence, as it is normally repressed i n postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomer ase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that t elomerase 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 regu lation of telomerase activity. [provided by RefSeq
Other Designations	telomerase catalytic subunit

Publication Reference

- Antigenic profiling of glioma cells to generate allogeneic vaccines or dendritic cell-based therapeutics.

  Zhang JG, Eguchi J, Kruse CA, Gomez GG, Fakhrai H, Schroter S, Ma W, Hoa N, Minev B, Delgado C, Wepsic HT, Okada H, Jadus MR.

  Clinical Cancer Research 2007 Jan; 13(2 Pt 1):566.

  Application: Flow Cyt, Human, U-251 cells

- The telomerase reverse transcriptase regulates chromatin state and DNA damage responses.

  Masutomi K, Possemato R, Wong JM, Currier JL, Tothova Z, Manola JB, Ganesan S, Lansdorp PM, Collins K, Hahn WC.

  PNAS 2005 Jun; 102(23):8222.

  Application: WB, Human, BJ fibroblasts

- Telomerase maintains telomere structure in normal human cells.

  Masutomi K, Yu EY, Khurts S, Ben-Porath I, Currier JL, Metz GB, Brooks MW, Kaneko S, Murakami S, DeCaprio JA, Weinberg RA, Stewart SA, Hahn WC.

  Cell 2003 Jul; 114(2):241.

- Evolving views of telomerase and cancer.

  Blasco MA, Hahn WC.

  Trends in Cell Biology 2003 Jun; 13(6):289.

  Application: WB, Human, Cancers, Mammalian cells

Disease

- Adenocarcinoma
- Anemia
- Asthma
- Bone Marrow Diseases
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma

- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Dyskeratosis Congenita
- Eczema
- Edema
- Endometrial Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genomic Instability
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Hepatitis
- Hypersensitivity
- Leukemia
- Lung Neoplasms
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Myocardial Infarction
- Neoplasm Metastasis
- Neoplasms
- Ovarian Neoplasms

- Pancreatic Neoplasms
- Papillomavirus Infections
- Pulmonary Disease
- Pulmonary Fibrosis
- Rhinitis
- Skin Neoplasms
- Syndrome
- Testicular Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Virus Diseases
- Werner syndrome