

Datasheet for ABIN726650
anti-TERT antibody (AA 601-750)

5 Images

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Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | TERT |
| Binding Specificity: | AA 601-750 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TERT antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

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|-------------------|--|
| Immunogen: | KLH conjugated synthetic peptide derived from human TERT |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Purified by Protein A. |

Target Details

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|-------------------|--|
| Target: | TERT |
| Alternative Name: | TERT (TERT Products) |

Target Details

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|-------------|---|
| Background: | <p>Synonyms: TP2, TRT, CMM9, EST2, TCS1, hTRT, DKCA2, DKCB4, hEST2, PFBMFT1, Telomerase reverse transcriptase, Telomerase catalytic subunit, Telomerase-associated protein 2, TERT</p> <p>Background: 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 telomerase 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.</p> |
| Gene ID: | 7015 |
| UniProt: | O14746 |
| Pathways: | Telomere Maintenance |

Application Details

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|--------------------|--|
| Application Notes: | <p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p> |
| Restrictions: | For Research Use only |

Handling

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|---------|--------|
| Format: | Liquid |
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Handling

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| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

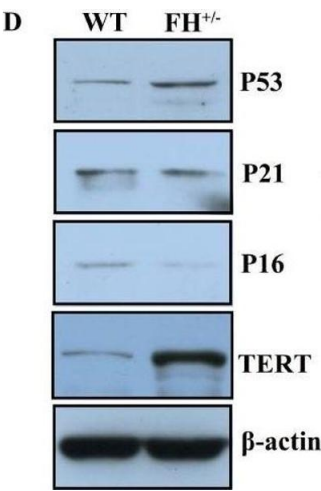
Publications

Product cited in:

Fan, Li, Li, Zhang, Dou, Zhao, Cao, Deng, Zhang, Li, Suo: "Anti-senescence role of heterozygous fumarate hydratase gene knockout in rat lung fibroblasts in vitro." in: **Aging**, Vol. 11, Issue 2, pp. 573-589, (2020) ([PubMed](#)).

Carreras, Zhang, Peris, Qiao, Gileles-Hillel, Li, Wang, Gozal: "Chronic sleep fragmentation induces endothelial dysfunction and structural vascular changes in mice." in: **Sleep**, Vol. 37, Issue 11, pp. 1817-24, (2015) ([PubMed](#)).

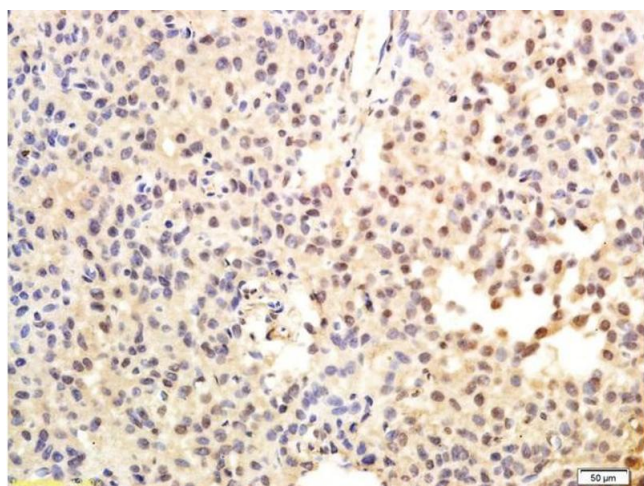
Images



Western Blotting

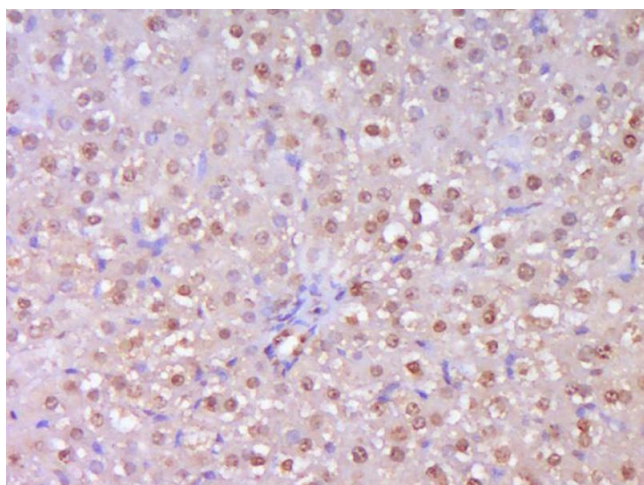
Image 1. Further characterization of the FH^{+/-} cells. (A) Microscopic images of WT and FH^{+/-} cells at the 61st passage (200x). (B) Representative ultrastructure images of WT and FH^{+/-} cells at the 55th passage evaluated by electron microscopy (a,d:2000x, b,e:4000x, c,f:8000x), where a larger cell body with plenty of rough endoplasmic reticulum, mitochondria and ribosomes is shown in the FH^{+/-} cells, but the WT fibroblasts show fewer mitochondria and ribosomes and deformed and less condensed rough endoplasmic reticulum. (C) Representative immunofluorescence images of the expression of p53, p21

and p16 (200x). Western blot for p53, p21, p16 and TERT in WT and FH+/- cells and the corresponding histograms are shown in (D) and (E), respectively. (F) SA- β -Gal detection. (G) FH+/- single cell cloning images captured with the Incucyte Zoom System for cells at the 84th passage. (H) The karyotype of a RLFHF FH+/- cell, where no chromosome abnormality is seen as revealed for the karyotype of a control fibroblast at the 40th passage. (I) Electron microscope images of RLFHF FH+/- cells (4000x for both a and b), which are rich in mitochondria, rough endoplasmic reticulum and ribosomes. Western blot for FH protein expression in the 58th passage WT, 68th passage FH+/- and RLFHF cells is shown in (J) and corresponding histograms are shown in (K). - figure provided by CiteAb. Source: PMID30668541



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human hepatoma labeled with Anti-TERT/TERT Polyclonal Antibody, Unconjugated (ABIN726650) followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Paraformaldehyde-fixed, paraffin embedded Rat Liver Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with TERT Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, DAB staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN726650.